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Smith, M.F.

1976 - 1977

Journal

California :
(Nevada)

Mendocino, Monterey, Contra Costa,
Mariposa, Kern, Tulare, Inyo,
Sierra, Mineral Cos.

M.F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 12 Left Berkeley at 10:30 am. Mileage 30602. Ate lunch after Cloverdale along Russian River. Arrived Hopland ~1:15 pm. Mileage 30707. Unloaded gear at bunkhouse and stopped by office to check on location of weather data in office. Drove up to chaparral patch in Orchard Pasture. Picked out the area at the bend in the road for the transects. Set 2 lines of 20 each in chamise and out far edge into shrubs + trees, 1-40. Finished ~~there~~ at 3:15 pm. Drove to Dz Parasite Pen. Set 41-80 in 4 lines. 41-60 in grass with scattered trees (1st row), live oak grove + grass (2 row), 61-80 in grass with no trees. Lots of Microtus runways visible in short green grass. Finished there at 4:30 pm. Drove to Foster. Set 81-100 in creek bed. Some puddles of water this time. Live oak, Calif. Laurel, Madrone, Buckeye along creek. Set 101-120 along bottom of hill 30% slope scattered madrones and live oaks. (101-110 on to steeper hillside, 111-120 start in grass, then trees on 15° slope. Finished there at 5:30 pm. Set 40 non-folding Sherman around Rock Pile, Live Oaks, and madrone on outer margin. Also Manzanita near East end of pile. 41-60 on South-West ~~south~~ side + ~~so~~ south east side near lake. 61-80 on N + NE sides. Finished there at 6:15 pm. Still some light.

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Hopland Field Station, Mendocino Co., Calif.

Mar. 13 Got up at 6:00 am. Went out at 7:00am to check traps.

Rock Pile

toe clip number ↘

Trap 64 Peromyscus boylii ♂ in process of molting from 1 juv. to adult pelage
under dead limbs; nearest tree: live oak, 5 meters away

Trap 69 P. truei ♂ male juv. ear 23 mm 2
at base of Live Oak, talus slope of 15 cm diam, oak leaf litter

Trap 71 P. boylii ♂ adult 21 mm 3
right under moss-covered rock; nearest tree Live Oak, 2" diam, 2 meters away

gave to mike — Trap 72 P. boylii ^ ♀ adult 18 mm 4 — 202-100-22-26=21gm
at base of rock; nearest tree madrone, 12" diam, 6 m away

gave to mike — Trap 74 P. boylii ^ ♀ adult 18 mm — 199-106-22-21=22gm
1m boulders
at base of rock; nearest tree laurel, 8 cm diam, 30 cm away

Trap 75 Neotoma
at base of rock; nearest tree buckeye, 20 cm diam, 2m away

Trap 76 shrew Sorex trowbridgei?
15 cm diam, 11 m away
under rock at base of 7 m high cliff; nearest tree madrone

Trap 77 P. boylii ♂ body 91; hind foot 19, tail 79, ear 15 mm juv just starting molt 5
oak & leaf litter
under overhanging dead tree, near rocks; nearest tree live oak, 40 cm diam, 3 m away

Trap 80 P. boylii ♂ hind foot 21, tail 99, adult ear 16 mm 10
at base of rock; nearest tree, madrone, 20 cm diam, 5 m away

Trap 60 P. maniculatus ♀ hind foot 21, tail 73, adult ear 18 mm 20
among jumble of 15cm diam rocks; nearest tree live oak, 40 cm diam, 3 m away

Trap 55 P. boylii ♂ hind foot 20, tail 96, juv. patch on side ear 19 mm 11
at base of 6 m cliff; nearest tree buckeye, 15 cm diam, 2 m away

Trap 50 P. boylii ♀ hind foot 19, tail 102, adult ear 15 12
nipples prominent
among boulders; nearest tree buckeye, 10 cm diam, 2 m away

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Hopland Field Station, Mendocino Co., Calif.

Mar. 13 Trap 49 P. maniculatus ♂ adult hind foot 20, tail 64, ear 17 13
50 cm diam
among boulders; nearest tree laurel, 10 cm diam, 7 m away

gave to Mike Fye Trap 48 P. boylii 187-101-22-20=21gm ♂ adult hind foot 20, tail 101, ear 17 dead
70 cm diam
among boulders; nearest tree buckeye, 10 cm diam, 1 m away

Trap 47 P. boylii ♀ juv hind foot 22, tail 98, ear 18 14
among boulders; nearest tree laurel, 15 cm diam, 2 m away

Trap 42 P. boylii tot leng 160 ♂ juv hind foot 22, tail 79, ear 18 dead discard
talus slope; nearest tree laurel, 15 cm diam, 7 m away

Finished there at 9:20am.

Foster Pasture Creek Bed

Trap 85 P. manic ♀ juv. beginning molt 15
150-62-19-16=20 gm
under broken live oak branch in creek bed with boulders

Trap 87 P. truei ♂ adult dead
192-103-23-24=24 gm
along log lying in creek bed

Trap 90 P. manic ♀ adult 21
160-72-20-16=22 gm
among branches & logs lying in creek bed, rocks in bed about 5 cm diam

Trap 96 P. manic. ♀ juv. dead
168-79-20-16=20 gm
dead laurel branch
along 1 m diam rock, in creek bed 1 m from grassy slope, 1m from

Trap 97 P. truei ♂ adult live for tissues
- - - = gm
in hollow of laurel tree root, 2 m from creek bed

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Mar. 13 Trap 98 P. manic ♂ adult 22

151 - 70 - 20 - 17 = 19 gm

Trap 98 P. manic ♂ juv 23

138 - 69 - 18 - 15 = 12 gm

at base of large dead log 1 meter away from creek under laurel tree

Foster Pasture bottom of hillside

Trap 110 P. boylii ♀ adult 24

195 - 100 - 21 - 19 = 26 gm

by burned out tree trunk, leaf litter, no grass, madrone & live oak

Trap 108 Neotoma

by large decaying tree, grassy hillside above

Trap 104 P. boylii ♂ adult dead

180 - 99 - 21 - 19 = 18 gm

in hollow base of madrone trunk, leaf litter (black oaks)

Trap 117 P. truei ♂ juv 25
170 - 85 - 23 - 20 live for tissues

at base of live oak, leaf litter, 5 m from grass

Parasite Pen D2

Trap 57 Microtus dead

by pile of dead branches, burrows present, grass, miners lettuce, umbels

Trap 44 P. manic ♂ adult 30

153 - 66 - 16 - 16 = 18 gm

under dead branches, grass

This pen was fenced off in 1957, so no grazing by sheep or deer since then, according to Bob Minn, grad. student of Walter Howard at Davis, Bob is studying coyotes.

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Hopland Field Station, Mendocino Co., Calif.

Mar. 13 Finished at Parasite Pen D-2 at ~12:30pm. Drove up to Chaparral in Orchard Pasture, 2300'

Trap 2 P. manic ♀ juv mostly molted 31
154-64-18-15 = 18 gm
chamise covering 70% of 5 m square, 80 cm high

Trap 4 P. manic ♀ adult 32
chamise (50%) & Ceanothus (5%), 70 cm high

Trap 6 Dipodomys heermanni
chamise (45%) & Ceanothus (45%), 100 cm high

Trap 11 Lagomorph
chamise (60%), 70 cm high

Trap 12 P. manic ♂ adult 33
chamise (50%), 80 cm high

Trap 13 P. manic ♂ adult 34
155-65-20-17 = 19 gm
chamise (40%), 60 cm high

Trap 14 P. truei ♂ juv mostly molted 35
live for tissue
chamise (50%), grass (5%), on east edge of chapparal, 70 cm high

Trap 33 P. ~~boylii~~ manic. ♀ juv mostly molted 40
175-80-21-18=19gm
~~182-87-22-16 = 18 gm~~
chamise (40%), scrub oak (10%), cham 100 cm high, oak 200 cm high
edge of chaparral, 30 m from live & black oaks

Trap 31 P. truei live for tissue
chamise (50%), 90 cm high

Trap 26 P. manic ♂ 41
160-70-20-16 = 19 gm juv half molted
chamise (20%), grass (70%) (sparse), south edge of chap

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Mar. 13 Finished checking traps at 2:00pm. Ate lunch on hillside overlooking valley of the Russian River. Bright sunny day with light breeze from . At 2:30 started mapping chaparral plot with graph paper, compass, protractor, +10 meter steel tape. Finished there at 4:10 pm. Drove back to O-2 to work on sketch map there. Enlarged scale from Hopland map since each of 4 sides looks straight. Sketched in Trees: deciduous oakes (Valley Oaks); Black Oak; grass. Finished there at 5:15pm. Went back to bunkhouse. Have 3 Peromyscus boylii (Rock Pile 72, 74, 48), 1 Sorex? (Rock Pile 76), and 1 Peromyscus truei (Foster Pasture Creek Bed 87) to Mike Fry to put up for the museum at Hopland Field Station. Had dinner and then went to Headquarters building to look at weather records. Data ~~recorded on following 3 pages for the Headquarters weather station.~~ Xeroxed data for Headquarters and for Coon Lake + Orchard (2900') Stations. Went to bed at 10:00pm.

Mar. 14 Up at 5:45 am. Went out at 6:45am to check traps. Reversed yesterday's order, so started in chaparral.

Weather		dry bulb		
Fri night	min.	34°F	Sun. night	min. 36°F
Sat	max	66°F		
Sat night	min	30°F		
Sun	max	58°F		

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Hopland Field Station, Mendocino Co., Calif.

Mar. 13 Weather records summary for Headquarters

Total Monthly Rainfall (in inches)

Yearly Total		J	F	M	A	M	J	J	A	S	O	N	D
13.17	1976	0.45	2.73	1.74	3.05	--	--	0.02	1.49	0.13	0.44	2.51	0.61
34.15	1975	2.45	11.35	10.39	1.71	0.03	0.08	0.21	0.44	--	4.10	1.54	1.85
39.95	1974	10.79	4.18	12.87	2.41	0.13	--	0.91	0.19	--	1.55	1.41	5.51
53.05	1973	13.13	8.78	3.81	0.19	0.06	--	--	--	0.91	2.74	16.13	7.30
26.58	1972	2.95	3.32	1.53	2.23	0.50	0.06	--	0.03	1.21	3.39	5.76	5.60
27.67	1971	5.50	0.48	6.31	1.36	1.08	0.01	--	0.15	0.45	0.92	4.09	7.32
49.73	1970	20.57	4.02	2.62	0.33	0.12	0.62	--	--	--	1.80	8.05	11.60
45.42	1969	14.58	10.40	1.22	2.38	--	0.05	--	--	0.02	1.97	2.08	12.72
42.02	1968	9.96	4.66	4.84	0.40	0.74	--	--	2.01	0.06	1.80	3.94	13.61
34.95	1967	~~10.06~~ ~~0.37~~	~~0.38~~ ~~1.41~~	7.58	4.66	~~0.37~~ ~~0.01~~	~~1.41~~ ~~1.47~~	~~--~~ ~~3.23~~	~~--~~ ~~5.28~~	0.01	1.97	3.23	5.28
33.42	1966	9.52	3.41	1.74	1.13	0.24	0.04	--	0.24	0.12	--	9.43	7.55
31.30	1965	8.54	1.25	1.03	5.24	--	--	--	0.53	0.03	0.16	9.57	4.95
38.57	1964	6.46	0.26	2.56	0.86	0.84	0.62	--	--	--	2.58	8.20	16.19
37.49	1963	4.52	4.82	7.04	7.02	1.17	--	--	--	0.09	3.77	7.56	1.50
34.33	1962	1.47	10.92	4.93	0.57	0.63	--	--	0.11	0.52	8.79	2.35	4.04
29.51	1961	4.51	3.92	5.92	1.47	0.80	--	--	--	0.19	0.51	8.39	3.80
35.83	1960	5.83	9.30	5.68	1.54	2.15	--	--	--	--	0.77	5.88	7.38
25.88	1959	12.12	8.09	1.69	0.45	--	--	--	--	2.02	0.03	0.04	1.44
46.90	1958	8.95	19.50	7.62	6.04	0.60	0.87	0.02	--	--	0.22	1.40	1.68
42.32	1957	7.07	8.42	3.64	2.57	3.77	--	--	--	3.99	5.70	1.49	5.69
30.23	1956	15.14	7.98	0.88	1.50	0.73	0.09	0.02	--	0.02	3.03	0.17	0.67
	1977	2.31	2.65										

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Hopland Field Station, Mendocino Co., Calif.

Weather records summary for Headquarters station

Mean Maximum Temperature (°F)

	J	F	M	A	M	J	J	A	S	O	N	D
1976	56.5	59.2	62.5	63.9	79.9	84.6	91.3	82.8	86.4	82.0	68.6	56.0
1975	56.0	56.4	58.3	61.4	79.0	86.5	89.9	89.5	90.4	71.3	59.3	54.3
1974	51.0	57.5	59.9	66.5	76.7	86.0	90.1	92.8	92.8	81.1	61.8	53.9
1973	51.2	58.4	58.5	72.7	82.3	88.1	92.0	91.6	85.0	75.5	56.3	53.2
1972	52.9	58.9	67.2	66.8	78.3	86.1	92.0	92.4	82.8	70.6	58.7	48.4
1971	54.8	61.2	59.9	64.7	71.6	80.9	93.0	93.6	87.9	75.9	62.1	49.3
1970	54.2	62.7	66.2	66.1	78.7	85.1	94.3	92.9	89.7	75.6	60.1	49.2
1969	50.8	50.8	62.8	66.3	77.8	80.1	93.4	95.7	89.6	72.1	64.6	55.6
1968	53.2	61.4	64.8	72.5	74.3	87.0	93.8	85.9	87.4	75.1	59.7	49.4
1967	55.3	64.0	58.9	54.8	77.4	81.4	94.8	97.5	91.1	77.6	66.2	52.5
1966	53.5	56.0	62.9	75.6	79.4	84.4	88.1	93.2	86.8	80.6	62.3	54.0
1965	54.1	62.0	64.4	64.6	75.8	78.5	90.7	89.4	82.9	83	59.7	50.9
1964	52.6	64.7	61.7	69.3	72.0	80.5	91.3	92.3	86.4	81.7	58.0	53.7
1963	55.3	64.4	60.4	58.8	71.8	82.3	87.5	89.6	87.7	74.6	60.3	56.1
1962	58.1	56.6	58.5	74.6	72.3	86.4	93.5	90.2	85.8	72.9	63.9	56.9
1961	57.0	58.1	58.5	70.5	68.6	88.4	94.6	92.2	86.4	78.4	63.7	54.2
1960	51.3	59.2	64.5	65.5	70.8	90.2	96.0	93.0	90.6	76.4	59.9	55.7
1959	56.9	56.2	68.2	75.5	73.4	85.6	96.7	92	82.4	80.6	71.1	59
1958	55.2	57.9	57.8	66.7	78.5	80.6	90.5	96.6	90.7	84.1	65.0	62.3
1957	50.4	57.2	58.8	68.3	69.4	87.6	89.3	88.6	86.4	68.3	61.7	54.7
1956	50.8	55.4	63.7	66.6	74.2	83.4	91.2	88.8	86.6	73.8	65.9	56.9
1977	56.2	65.6										

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Hopland Field Station, Mendocino Co., Calif.

Weather records summary for Headquarters Station

Mean Minimum Temperature (°F)

	J	F	M	A	M	J	J	A	S	O	N	D
1976	29.4	34.9	33.9	37.5	42.9	48.0	53.7	52.8	50.3	41.8	40.2	27.6
1975	30.8	38.0	39.1	35.3	43.9	48.7	52.1	51.4	49.3	42.7	34.0	33.8
1974	34.7	32.0	39.5	38.4	42.6	48.3	53.3	53.2	50.2	43.3	35.4	32.9
1973	34.1	40.6	35.8	38.9	45.8	51.4	52.7	50.0	48.4	42.8	42.0	40.3
1972	30.8	37.6	40.7	38.6	43.5	50.0	54.1	53.4	47.1	45.4	38.5	29.7
1971	34.6	34.2	36.0	37.8	43.2	47.4	53.2	54.0	48.1	39.0	36.4	30.6
1970	40.3	38.0	37.4	35.0	44.3	49.1	51.3	48.1	45.0	39.3	44.1	37.0
1969	34.1	36.0	35.2	38.6	44.8	50.9	51.8	51.9	50.2	43.1	35.8	39.0
1968	31.6	42.9	39.5	38.2	43.2	49.6	52.7	54.2	51.4	43.5	40.1	33.3
1967	34.2	34.0	35.6	35.6	43.9	49.5	54.3	54.0	52.0	44.2	41.3	30.6
1966	33	34.3	39.0	41.9	45.5	49.4	49.5	52.9	48.7	42.0	40.9	37.4
1965	36.3	32.7	37.4	42.3	42.9	48.0	51.2	54.3	45.9	45	41.9	31.2
1964	32.2	29.2	33.6	35.8	39.6	46.8	49.2	50.3	45.4	44.1	37.9	38.9
1963	28.4	44.4	36.4	39.0	46.5	47.7	48.1	49.5	48.3	44.4	37.9	31.7
1962	29.1	38.5	36.5	48.3	42.4	47.0	48.9	50.0	46.8	43.8	39.3	35.5
1961	34.1	38.2	38.1	40.0	43.6	51.6	51.1	52.5	45.7	41.8	35.3	33.0
1960	32.0	35.6	40.6	40.3	42.9	51.3	53.5	48.7	45.1	44.2	38.3	34.8
1959	35.5	34.1	36.7	40.6	40.2	47.9	49.7	51	46.4	36.5	32.7	30.8
1958	33.1	44.9	34.3	38.5	44.8	51.5	53.9	53.3	50.0	44.4	39.5	35.3
1957	28.2	38.9	38.6	39.9	45.4	49.7	50.0	47.5	46.6	42.1	35.2	34.2
1956	31.5	24.0	27.2	32.3	36.7	41.9	44.7	41.8	36.9	33.5	29.9	29.2
1977	30.1	35.8										

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Mar. 14 Chaparral in Orchard Pasture 2300'

Trap 1 P. manic ♀ adult 42

-66- -14 =

chamise (80%), 60 cm high

discard dead

Trap 2 recap 31

Trap 4 P. manic ♂ adult 43

162-68-21-17 = 16 gm

Trap 5 Dipodomys (dead)

chamise (40%) on edge of dry wash, 60 cm high

Trap 11 Lagomorph

Trap 33 recapture 40 dead

Trap 22 P. manic ♀ juv 44

136-62-21-18 = 13 gm

chamise (30%), grass (20%), 5 m from road, 50 cm high

Trap 21 P. manic ♀ juv 45

132-61-20-17 = 12 gm

chamise (40%), grass (10%), 5 m from road, 50 cm high

Finished there at 8:20am. Had light fog drizzle for ~10 min. around 8:00am, then sunshine again.

Parasite Pen D-2

discard dead

Trap 48 P. manic ♀ juv

141-70-19-17 = 15 gm

discard

Trap 48 P. manic ♂ juv killed by trap door

151-66-19-18 = 18 gm

40 cm diam, 3 m away

moss, dry grass stems 30 cm high, nearest tree Valley oak

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Mar. 14 Trap 52 P. manic ♀ adult 50

140-65-21-18 = 20 gm

shoots of live oak

1 m from base of interior live oak, miners lettuce, leaf litter

Trap 57 Microtus

discard dead

Trap 59 Microtus grass stems 30 cm high

under pile of branches, 7 m from valley oak, 80 cm diam

Finished there at 9:10am. Sky completely overcast now.

Foster Pasture Creek Bed

Trap 85 P. truei live for tissues

Foster Pasture Hillside

discard dead

Trap 104 P. boylii ♀ adult, nipples visible

182-99-22-20 = 23 gm

discard ill

Trap 108 P. boylii ♂ adult, cinnamon colored

220-110-23-22 = 27 gm

Trap 110 recap 24 dead

Trap 118 P. truei live for tissues

base of valley oak, leaf litter, 5 m from grass, live oaks

Made sketch maps of these ~~two~~ areas. Finished there at 11:15am.

Rock Pile

Trap 61 P. boylii ♀ adult 51

base of talus slope of 1 m diam boulders, black oak leaf litter, scattered green herbs, nearest tree live oak, 15 cm diam, 2 m away

Trap 64 recap 1 released

described earlier: rocks, ground covered by herbs

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ROCK PILE

Mar. 14 Trap 67 P. truei ♂ 52
live for tissues
talus slope of 30 cm rocks, black & live oak leaf litter,
nearest tree live oak, 40 cm diam, 3 m away

Trap 69 P. truei ♀ juv discard dead
188-96-25-24=21 gm

Trap 71 P. boylii ♂ juv, beginning molt discard dead
181-91-22-20=19 gm

Trap 74 P. boylii ♂ adult discard dead
195-102-23-21=23 gm

Trap 77 recap 5 brought back frozen - ok P. boylii dead

Trap 79 P. boylii ♂ juv 53
-86-22-19=18 gm

base of talus slope of 50 cm moss-covered boulders, grass
and oak leaf litter

Trap 80 P. manic ♂ adult discard dead
152-72-21-17=16 gm

Trap 60 recap 20 discard iH

Trap 53 P. boylii ♀ juv discard dead
159-91-22-18=12 gm

base of 2m boulder, black & live oak leaf litter

Trap 49 P. boylii ♀ adult 54

Trap 48 recap 13

Trap 48 P. manic ♀ juv, molting discard dead
-66-19-16= gm head chewed away

Finished checking traps at 12:30pm. Worked on sketch map.
Finished that at 1:30pm. Went to bunkhouse for lunch
and took Gary to the ~~boat~~ bus at 2:55pm. Wrote letters

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Mar. 14 until dinner. Worked in headquarters library in the evening.

Mar. 15 Got up at 6:00am. Went out at 6:40am to check traps.

Chaparral in Orchard Pasture

Trap 1 recapture 41 ♂ released

Trap 2 recapture 42 ♀ dead discarded

Trap 4 Microtus dead discarded

Trap 8 recapture 34 ♂ released

chamise (50%) ceanothus (5%)

Trap 9 P. manic. ♀ 15gm adult released

chamise (60%) ceanothus (5%) rocky gravel

Finished there at 8:30am.

Sunday night was not as cold as the previous two nights. The car windows were wet, but not frosty, as they had been previously. The moon was full, although it was obscured by clouds during some of the night.

D-2 Parasite Pen

gave to Bob Minn Trap 41 Microtus alive

under fallen branches of deciduous oak (Valley Oak)

Trap 45 Microtus dead

base of Valley Oak (25cm diameter) dry grass 20cm high
some green herbs

Trap 51 P. truei live for tissues

under fallen branches beneath Interior Live Oak at edge of grove

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Mar. 15 D-2 (continued)

Trap 52 P. truei — live for tissues

base of Interior Live Oak, 10 meters from edge of grove

Trap 57 Microtus calif. — dead discarded

gave to Bob Minn — Trap 59 Microtus calif. — alive

under small dead branches of Valley Oak; green grass + herbs nearby

gave to Bob Minn — Trap 60 Microtus calif. — alive

base of log under Valley Oak; green grass + herbs 4cm high

Trap 76 Reithrodontomys megalotis — alive released

green grass 30cm. high; nearest rock 3 meters
dry grass 40cm. high

Trap 65 Microtus calif. — dead discarded

green grass 10cm; dry grass 20cm

Finished there at 10:00am.

Foster Pasture Dry Creek Bed

Trap 85 P. truei — live for tissues

Trap 87 P. truei — live for tissues

Trap 89 P. manic. recapture 21 — alive released

bottom of dry creek bed; leaf litter; laurel overhead

Trap 91 P. truei — live for tissues

under overhanging roots of laurel tree; on bare leaf litter
in dry creek bed; scattered rocks ~ 20cm diameter in creek bed

Trap 96 P. truei juv. — live for tissues

Foster Pasture Hillside

Trap 108 P. boylii ♂ juv. — ~~dead~~ released

Finished there at 11:30am.

M. F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 15 **Rock Pile**

Trap 62 recapture 51

Trap 63 P. boylii ♂ adult alive released

base of large boulder; leaf litter; live oak 2 meters 30cm diam.

Trap 64 recapture #1

Trap 67 P. boylii ♀ juv. dead

along dead branch on talus slope; live oak 2 meters 30cm diam

Trap 69 P. truei alive for tissues

by rock 30cm diam. on talus slope under live oak 15cm diam

Trap 71 P. boylii ♀ juv. dead in chest

Trap 75 P. manic. ♂ adult alive

Trap 78 recapture ~~50~~ 53 ♂ juv

under Manzanita clump on edge of grass

Trap 49 P. boylii juv. live for tissues

Trap 53 P. boylii ♂ juv. tail alive released

Trap 56 P. manic. ♀ adult tail to here alive released

under large boulders on side facing lake; nearest tree deciduous 3 meters 10cm diam.

Trap 60 P. manic ♂ juv. alive released

Loaded car, but it wouldn't start at all this time. Art Butler, the mechanic at Hopland, looked it over and finally traced the problem to a faulty coil. Finished loading traps and drove home. Mileage 30759 → 30864. Got home at 5:00 pm. After dinner unloaded live animals at LSB. All still alive at this point. Note: Paid Al Murphy $12.50 for lodging and $1.05 for xeroxing of weather data.

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 21 Left home at 8:50 am. Mileage 30884. Picked up Sue Case at 9:00 am. Arrived Hastings 12:00 noon. Mileage 31027. This is the first time the 1st + 2d crossings in the driveway have been dry.

40 traps Went out at 1:00 pm to set in Madrone Canyon. Set 61-80 along Big Creek, which is dry. Set 81-90 on moist hillside above creek. Set 91-100 under dead branches of live oaks.

40 traps Set 20-60 on hill behind Davis house, 41-60 in chaparral near Red House in chamise + Ceanothus. 21-40 around garage, edge of oaks, up through chaparral above chinchilla house.

40 traps Set 40 non-folding Shermans at J. Bell's ranch along Finch Creek, which does have water in it. 41-50 down hill in live oaks. 51-60 along creek. 61-80 upstream along creek within 3 meters of water. Finished there at 4:30 pm. Sue helped with the last 20 after checking J. Bell's fish pond + creek for Rana aurora - didn't find any.

40 traps Set 40 folding Shermans in grassland next to Pearson's Field where Calhoun line is. Traps set in Myer's Field? 1-10 and 101-130 in two parallel lines (1-10, 101-110 closer to creek; 110-130 above on hillside).

20 traps Set 10 non-folding Shermans from Lower Barn and Sue helped me set 5 around barn and 5 along fence row. Then set 10-20 around labs + bunkhouse.

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

		J	F	M	A	M	J	J	A	S	O	N	D
1969													
°F	Ext Max	80	66	81	77	89	88	96	103	97	91	87	74
	Mean Max	58.4	52.4	62.0	63.1	73.1	73.5	88.3	93.1	86.2	73.3	73.5	62.7
	Ext Min	24	28	27	31	31	36	43	40	37	30	31	26
	Mean Min	36.7	35.1	35.7	37.6	41.8	45.9	50.5	51.0	50.6	41.3	41.7	36.3
5 inches	Precip.	12.12	11.55 ~~43.7~~	1.62 ~~48.9~~	2.38 ~~50.4~~	0.17 ~~57.5~~	0.15	0.00	0.00	0.12	0.20	0.76	2.18
	1970												
°F	Ext Max	70	77	78	78	95	97	101	99	98	98	82	72
	Mean Max	59.3	64.6	64.5	61.7	74.5	79.5	89.8	87.0	86.6	75.7	67.2	54.1
	Ext Min	23	29	30	27	32	37	40	41	32	32	30	43
	Mean Min	38.1	37.0	37.0	33.9	43.2	46.3	51.2	49.4	47.9	42.4	39.8	34.1
23.60	" Precip.	5.80	2.26	3.07	1.30	0.23	0	0	0	0	0.8	5.51	5.35
	1971												
	Ext Max	81	83	78	81	78	96	98	104	109	98	83	68
	Mean Max	62.0	62.1	61.6	62.1	65.2	77.8	86.8	88.9	84.8	74.2	65.4	52.6
	Ext Min	21	20	24	29	30	33	38	43	33	23	28	24
	Mean Min	33.2	33.7	34.7	36.7	39.9	43.5	49.5	51.2	48.9	40.6	35.9	31.2
5.15	Precip	1.43	0.80	1.38	1.95	0.25	0.01	0	0.06	0.33	0.33	1.83	6.78
	1972												
	Ext Max	73	77	86	84	93	99	111	97	93	90	73	74
	Ext Min	60.1	64.9	69.0	66.7	74.9	82.5	88.4	86.9	80.4	69.9	60.8	55.5
	Mean Max	25	26	23	27	31	33	38	39	34	26	31	14
	Mean Min	31.4	36.4	37.9	35.9	41.1	45.6	50.4	50.4	45.7	44.6	38.3	32.1
5.33	Precip.	1.23	0.71	0.08	0.63	0.06	0	0	0	0.12	2.80	6.39	3.31

M.F, Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif

Mar. 22 Weather records (continued)

		J	F	M	A	M	J	J	A	S	O	N	D
	1973												
°F	Ext Max	74	70	63	79	96	104	104	100	94	89	84	77
	Mean Max	54,9	58,1	53,8	65,7	75,7	83,9	86,2	86.8	81,3	76,1	60.4	59.8
	Ext Min	21	31	30	31	33	38	39	37	38	37	25	28
	Mean Min	33,1	39,1	35,7	38,7	43.7	49,1	48,5	49.3	46,2	43,1	37,9	36,4
8.													
.95	" Precip	6.19	8.85	4.70	0.55	0,11	0,01	0	0	0.18	1.37	3.33	3.66
	1974												
	Ext Max	72	71	75	78	97	96	100	96	97	97	82	78
	~~Ext Min~~ Mean Max	55.2	59,7	60,9	63,3	71,2	80.8	85,0	86.6	87,7	76,8	65,5	58,1
	Ext Min	22	26	26	31	30	36	37	38	35	38	30	22
	Mean Min	34.3	32,4	38.4	37,9	39,0	45,8	50.3	48.9	50.6	46.2	37,7	32.5
ip.													
74	(inches) Precip	5,08	0.54	4,51	2,21	0	0,10	0.22	0	0	2,06	0,98	5,04
	1975												
	Ext Max	81	74	73	70	89	91	106	98	98	93	83	80
	Mean Max	62,9	56.8	58.3	57,1	72,3	78.8	83,4	83,9	86.7	72.8	64,7	64,2
	Ext Min	19	25	24	28	30	33	36	40	38	30	23	22
	Mean Min	34,0	35,7	36,2	35,1	41,0	43,3	47,8	48,2	51,3	42,3	35,6	34,7
20.55	Precip.	1,09	6.37	7,82	1,47	0,06	0,02	0,05	0,35	0	1,51	1,33	0,48
	1976												
	Ext Max	83	83	78	76	98	104	97	103	104	91	92	77
	Mean Max	65,9	59,9	59,7	59,8	74,2	80.9	85,0	78.6	81.5	78.1	74.3	67,9
	Ext Min	20	29	26	28	28	30	38	41	43	33	28	30
	Mean Min.	33.5	35.3	33.8	35.4	39.8	45.0	49.5	50.3	51.2	46.2	43.4	34.6
ar	11.88 Precip.	0.44	2.00	2.22	1.77	.08	.04	0.00	~~64.5~~ 1.08	~~66.4~~ 1.01	~~62.2~~ 0.59	~~58.9~~ 1.23	~~51.3~~ 1.42

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co. Calif.

Mar. 21 Finished setting traps at 5:30 pm.
Went out at 8:30 pm to check grassland.
Nothing in traps. Clear skies, lots of stars,
but no moon visible at all.

Mar. 22 Went out at 6:45 am to check traps in grassland. (toe clip #)

Trap 108 Reithrodontomys megalotis — released alive

Trap 125 Peromyscus maniculatus ♂ adult 12 gm — 1
green grass 15 cm high dead stems matted down on ground

Checked traps around buildings.

Trap Hastings 25 P. manic. ♂ adult 12 gm — not saved dead
next to hole in wall of Lower Barn

Trap Hastings 54 P. manic. ♂ adult 16 gm — released alive — 2
next to hole in wall of Lower Barn

Trap Hastings not # P. manic ♀ adult 12 gm — released bad shape
next to hole in wall of Lower Barn

Trap Hastings 214 P. manic ♀ adult 11 gm — released alive — 3
next to hole in wall of Lower Barn.

Trap 14 P. manic ♂ adult 14 gm — released alive — 4
next to small white lab at end of row
Finished there at 8:00 am.

Chaparral behind Davis' house:

Trap 48 Neotoma fuscipes — released alive
under clump of dead stems of Ceanothus

Trap 57 P. truei — saved for tissues alive
under clump of chamise 2 meters tall at edge of chaparral

Trap 60 P. truei — saved for tissues alive
under clump of chamise 2 meters tall — Reid: oak 2 meters away 4 meters tall

Trap 23 Neotoma fuscipes — released alive
under clump of Ceanothus 5 meters from main patch of chaparral

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif

Mar. 22 Hill behind Davis' house (continued)

Trap 25 Peromyscus truei saved for tissues alive

under clump of chamise at edge of chaparral

in ~~8~~ 2 ☐ meters 50% chamise ~~50~~ 40% bare dirt 10% dry grass saved for tissues

Trap 28 P. truei alive

in ~~8~~ 2 ☐ meters chamise 40% dry grass 10% bare dirt 50%

Trap 38 P. truei saved for tissues alive

under clump of chamise 1½ meters high

in ~~8~~ 2 ☐ meters chamise 30% dry grass 10% bare dirt 60%

Trap 40 P. truei save for tissues live

under clump of chamise 1 meter high

in ~~8~~ 2 ☐ meters chamise 30% dry grass 10% Ceanothus 5% bare 55%

Checked Madrone Canyon

Trap 62 P. boylii ♂ juv molting to adult released alive 5

in Big Creek bed (dry) under dead branch of live oak, blackberry vines

grass 5% vines 10% dead branches 30% leaf litter 55%

nearest tree Live Oak 3 meters away 20 cm diameter

Trap 64 P. calif. ♀ adult released alive 10

1 meter above creek bed; nearest tree buckeye 3 meters away 10 cm diam

green grass 20% dead branches 20% buckeye sprouts 15% leaf litter 45%

Trap 66 P. calif. ♂ juv? 28 gm not saved dead

at base of live oak 1 meter above creek bed

green grass 30 cm tall 30% leaf litter 30% red stems dogwood? 20% oak 20%

Trap 70 P. boylii ♀ adult released alive 11

in dry creek bed under oaks 10 meters tall canopy 50% of sky covered

blackberry 5% dead branches 10% live oak branches 10%

leaf litter 50% bare dirt 25%

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co, Calif.

Mar. 22 Madrone Canyon (continued)

Trap 76 P. boylii ♀ 16gm adult? 12
at base of Live Oak 30 meters high, 40 cm. diam.
ground cover shrub (snowberry?) 1 meter high 40%, small herbs
10cm high 30%, green grass 10%, leaf litter 20%

Trap 91 P. californicus ♂ adult 13
under dead branches of live oak 3 meters from creek
live oak + buckeye overhead
green grass 20cm tall 40%; branches 30%; leaf litter 30%

Trap 95 P. boylii ♀ adult 14
~~has~~ under dead live oak branches; nearest tree Live Oak 2 meters
away 15cm diam.
green grass 5%, leaf litter 95%

Trap 96 P. ~~truei?~~ boylii ♀ adult 15
under dead branches of Live Oak
Calif. buckeye shoots 10%, live oak 10% leaf litter 30%, dead
branches 50%

Trap 100 P. boylii ♀ adult 20 gm bad shape
under dead log 3 meters above creek
green grass, herbs (miner's lettuce) 60%; (shrub snowberry?) 10%
branches 30% nearest tree buckeye 3 meters away
30cm diameter

Finished there at 11:15 am. Had lunch, then drove to J. Bell's.

Trap 41 P. boylii ♀ adult released alive 20 to
at base of Madrones 3 meters from road; trees are 30cm diam.
shrubs 5%; herbs 5%) leaf litter 90%

2:30 pm

M.F. Smith
1976

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Hastings Reservation, Monterey Co., Calif.

Mar. 22 J. Bell's ranch (continued)

Trap 42 P. boylii ♂ adult 21 +7

at base of Laurel ~~three~~ tree 5cm in diameter, 6 meters from road
shrubs (snowberry?) 1m. high 10%; herbs 50%; rocks 10% 50cm in diam.

Trap 44 P. boylii ♀ ~~adult~~ juv. 22

next to rock 30cm in diam. under Laurel shrub 2 meters high
snowberry 15%, laurel 10%, rocks 20%, leaf litter 55%

Trap 49 P. manic. ♂ adult 23

under snowberry bush 1 meter from Finch Creek
snowberry 40%; gooseberry 5%; rocks 5%; herbs 10%
leaf litter 40%

Trap 53 P. boylii ♂ juv. just beginning adult molt 24

under snowberry bushes 2 meters from creek
snowberry 60%; gooseberry 5% bare dirt 30%, leaves 5%

Trap 55 P. calif. ♀ adult bad shape

at base of hill 2 meters from creek
poison oak stems 20%, herbs 30 cm high 10% leaf litter
60%, logs 10%
nearest tree 2 meters alder 40 cm diameter

Trap 57 P. boylii ♀ adult 25

under dead branches of Live Oak 2 meters from creek
branches 60%, snowberry 5%, grass 10%, rocks 25%

Trap 58 P. calif. ♀ adult 30

under dead log 1 meter from water
herbs 10%; log + branches 80%, grass 10%

Trap 59 P. calif. ♀ adult 31

under dead log 4 meters from creek; nearest tree live oak 2m, 10 cm diam.
snowberry 10%, herbs 30%, logs 60%

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 22 J. Bell ranch (continued) toe clip #

Trap 60 P. boylii ♀ adult 32
under dead branches of live oak 3 meters from creek
snowberry 5%, green grass 5%, branches 60%, leaf litter 30%
nearest tree live oak 1 meter, 10 cm diam.

Trap 61 P. boylii ♀ adult 33
under dead branches of Live Oak 4 meters from creek
nearest tree Live oak 1 meter, 25 cm. diam.
snowberry 5%, herbs 5%, branches 50%, leaf litter 40%

Trap 62 Neotoma fuscipes released
under live Oak 3 meters from creek
herbs 10%, snowberry 10%, rocks 20%, leaf litter 60%

Trap 63 P. calif. ♀ juv. 34
under live oak sprout 2 meters from creek
snowberry 50%, live oak 10%, herbs 10%, leaf litter 30%

Trap 64 P. boylii ♂ adult 35
under live oak 4 meters from creek
snowberry 10%, live oak 10%, branches 70%, leaf litter 10%

Trap 65 P. boylii ♀ adult 40
under snowberry bushes 3 meters from creek
snowberry 30%, live oak 30%, rocks 10%, grass 10%, leaf litter 20%

Trap 66 P. boylii ♀ adult 41
under snowberry 3 meters from creek
snowberry 40%, dead branches 40%, leaf litter 20%

Trap 67 P. boylii ♂ adult 42
under snowberry 3 meters from creek
snowberry 50%, rocks 30% leaf litter 20%

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

toe clip #

Mar. 22 J. Bell Ranch (continued)

Trap 68 P. boylii ♀ adult 43
under currant bush 3 meters from creek
currant 20%, snowberry 30%, herbs 50%

Trap 70 P. boylii ♂ adult 44
under roots of sycamore 1 meter from creek
roots 60%, leaf litter 40%

Trap 72 P. manic. ♂ adult 45
under snowberry bushes 3 meters from creek
snowberry 70% herbs (umbell) 25%, leaf litter 5%

Trap 74 P. manic. ♀ adult 50
under berry bushes 3 meters from creek
snowberry 30%, blackberry ?20%, dead log 10%, rocks 30%
leaf litter 10%
nearest tree sycamore 2 meters 35 cm diameter

Trap 75 P. boylii ♂ adult not saved dead
under snowberry 2 meters from creek
snowberry 50%, grass + herbs 30%, leaf litter 20%

Trap 76 P. boylii ♀ juv. bad shape
4 m from creek snow. 40%, currant 20%, dead branches 20%
herbs 20%

Trap 77 P. calif. ♂ adult 51
under bush 2 meters high, 2 meters from creek
bushes 40%, herbs 30%, dirt 30%

Trap 78 P. manic. ♂ adult 52
under currant bushes 2 meters from creek
currants 60%, other bushes 20%, herbs 10% dirt 10%

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co. Calif.

Mar. 22 J. Bell creek (continued)

Trap 79 P. boylii ♂ juv. deep

4 meters from creek

shrubs 1 meter high 30%, ~~goo~~currant 30%, grass 30%, dirt 10%

Trap 80 P. boylii ♀ adult 53

under bushes 1 meter high, 3 meters from creek

bushes 50%, herbs 30%, leaf litter 20%

Finished there at 2:30 pm. Went back to bunkhouse so Sue could take the car to check some ponds at neighboring ranches. Sue had caught one this morning on Bloomquist pond just over Hastings fence.

Went out at 2:45 pm to do a ~~sketch~~ map of Madrone Canyon. Finished there at 4:00 pm. Then did chaparral map on hill behind Davis' house = Watertank Hill. Mapped grassland line in N end extension of Pearson's Field where the Myers worked on Microtus. Finished there at 5:30 pm. Had dinner at ~7:00, then went over to the office to look at weather records. Data on next page of monthly summaries 1969-1975.

Weather for Week of trapping:

High Sun Mar. 21	74°F
Low Sun night	40°F
High Mon.	68°F
Low Mon. night	34°F
High Tues.	63°F
Low Tues. night	33°F

M.F. Smith.
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 23 Went out at 6:45 am to check traps.

toe clip # ↓

Grassland

Trap 4 P. manic. ♂ adult 54

green grass 30cm high 50%, herbs 20%, holes + dirt 30%

5 meters from creek

Buildings

Trap Hastings 25 P. manic. ♂ adult? 10gm dead

Trap Hastings no # recapture 2 14gm dead

Trap Hastings 13 Reithrodontomys megalotis released

under water trough 7 meters from Lower Barn

Trap ~~13~~ 15 recapture 4 released alive

East

along fence at end of row of lab buildings grass 80%, dirt 20%

Trap 15 P. truei ♀ saved alive

in same trap as the animal above

Finished there at 8:15 am. Morning had started out with fog, but some blue sky. Frost on grass in meadow. Now completely overcast. Cleared again at 9:00 am

Chaparral

Trap 24 Neotoma fuscipes released

under clump of Ceanothus at edge of chaparral

ceanothus 50%, herbs 10%, bare dirt 40%

Trap 31 P. truei saved for tissues alive

under clump of chamise, 10 meters from edge of chaparral

chamise 50%, bare dirt 50%

Trap 38 P. manic ♂ adult cinnamon colored 55 saved for tissues

Trap 41 P. truei alive

Band of Davis' garage under shrub 1½ meters high 50%

grass 10%, dirt 40%

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 23 Chaparral behind Davis' (continued)

Trap 57 P. trucei saved for tissues
Trap ~~58~~ 59 Microtus californicus live
under chamise 1½ meters high 50%, bare dirt 50%

Finished there at 9:45 am.

Madrone Canyon

Trap 67 recapture #10 released alive
at base of sycamore, 40cm diam. tree, 4 meters from dry creek bed
shrub 5%, grass 5%, live oak 30%, logs 10%, leaf litter 50%

Trap 68 recapture #5 and #11 in same trap (11 by tail in door) dead
in dry creek bed
snowberry 10%, herbs 15%, leaf litter 75%

Trap 76 Neotoma fuscipes released alive

Trap 77 P. boylii ♂ adult 100
under dead live oak branches 7 meters from dry creek bed
branches 50%, green grass 25cm high 25%, herbs (Miner's lettuce) 25%

Trap 79 P. calif. ♂ juv? 101
under dead live oak log 1 meter from creek bed
branches 50%, herbs 30%, moss 10%, dirt 10%

Trap 80 Neotoma fuscipes released
under live oak shoot 4 meters from creek bed
live oak 40%, dead branches 10%, grass 40%, leaf litter 10%

Trap 94 P. boylii ♂ adult 102
under snowberry bush 7 meters from creek
dead live oak branches 40%, snowberry 30%, herbs 30%

Trap 96 P. boylii ♂ adult 103

Trap 97 P. boylii ♂ adult 104
under dead live oak branches 10 meters from creek bed branches 60% leaf litter 40%

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

toe clip #

Mar. 23 Madrone Canyon (continued)

Trap 99 P. boylii ♂ adult 105
under live oak branches 15 m. from creek bed
branches 50%, leaf litter 50%

Trap 100 P. boylii ♀ adult 110

Trap 82 P. californ ♀ adult dead
on moist hillside 12 meters from creek, under clump of buckeyes
buckeye sprouts 30%, maidenhair fern 30%, other herbs 20%
leaf litter 20%

Trap 84 Neotoma fuscipes dead
on moist hillside 15 meters above creek bed, under buckeyes
herbs 70%, rocks 10%, buckeye sprouts 20%

Finished there at 11:30, then had lunch. Dropped out at Cahoon's Pond at 12:00 noon, then checked traps at J. Bell's Creek

Trap 41 recapture 20 dead

Trap 42 recapture 21 released

Trap 44 recapture 33 released
~10 meters from Trap previously caught in

Trap 45 Neotoma fuscipes released
under snowberry 1m tall 10 m. from creek
herbs 5%, snowberry 15%, rocks 10%, leaf litter 70%
nearest tree Live Oak 1 m. away, 30 cm diam.

Trap 46 Neotoma fuscipes dead
under Laurel Tree 8 meters from creek
laurel branches 50%, leaf litter 40%, rocks 10%

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 23 J. Bell's creek (continued)

Trap 47 P. boylii ♀ juv dead
at base of live oak 4 meters from creek canopy overhead 80%
snowberry 20%, rock wt. moss 20%, leaf litter 60%

Trap 48 P. boylii ♀ adult 111
at base of snowberry 2 m. above creek
herbs 40%, snowberry 30%, leaf litter 30%
canopy overhead 60%

Trap 49 P. boylii ♀ juv dead
canopy overhead 10%

Trap 50 recapture 34 dead
canopy overhead 10%
along large log 4m from creek snowberry 10%, herbs 10%,
bark + leaf litter 80%

Trap 51 P. manic ♂ adult bad shape
under roots of sycamore 1 meter from creek
herbs 15% dirt 85% canopy overhead 0%

Trap 53 P. manic ♀ adult 112
canopy overhead 0%

Trap 54 P. boylii ♂ adult bad shape
under snowberry 3 m. from creek, snowberry 40%, rocks 30%,
herbs 30% canopy overhead 30%

Trap 56 recapture 23 released
at base of small rock slide 1 m. from creek
snowberry 20%, dead branches 60%, rocks 20%.
canopy 50% alder branches

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co, Calif.

Mar. 23 J. Bell's Creek (continued)

Trap 57 recapture 25 dead

canopy 20%

Trap 58 recapture 31 dead

canopy 50%

Trap 59 recapture 32

canopy 40%

Trap 63 P. boylii ♂ adult 113

snowberry 50%, live oak sprout 10% herbs 20%, leaf litter 20%

canopy 30% 2 m from crack

Trap 65 recapture 40 dead

canopy 50%

Trap 66 recapture 41 dead

canopy 50%

Trap 67 recapture 42 dead

canopy 75%

Trap 68 recapture 43 dead

canopy 20%

Trap 69 P. boylii ♀ juv. bad shape

under currant + umbel ½ meter tall, 4 m. from creek

canopy 60% alder branches; umbels 70% currant 10%

leaf litter 20%

Trap 71 recapture 44 released

under umbels 50%, 3 meters from creek

rocks 20%, grass 30%

canopy 0%

M.F. Smith
1971

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 23 J. Bell's creek (continued)

Trap 73 recapture 50 badshape

under big log 5 m. from creek canopy 0%

~~of~~ currant 10%, snowberry 30%, rocks wt. moss 30% dirt 30%

Trap 74 P. calif. ♀ adult 114

canopy 30%

Trap 75 recapture 45 dead

canopy 5% (sycamore, no leaves)

Trap 76 P. calif. ♀ adult dead

canopy 0%

Trap 77 P. calif. ♂ adult 115

canopy 0%

Trap 78 shrew dead

canopy 30% alder

Can't find traps 79 and 80 at end of line. Finished checking traps at 2:15 pm, then worked on sketch map. Left there at 2:45 pm to walk back to Hastings.

Noted that Bigleaf Maple was in flower along Finch Creek and leaves beginning to open out. Trees along the creek: alder, sycamore, laurel, madrone, maple, live oak.

Got back at 3:34 pm, had a shower, then went to finish mapping buildings. Worked in lab looking through notes on Peromyscus on file. Had dinner at Bell's (Jimmie + Lois Bell, Betty). Sam dog

Went to bed at 10:00 pm.

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 24 Got up at 6:15 am. Went out at 6:45 am to check traps.

Madrone Canyon

Trap 64 P. boylii ♀ ~~juv.~~ adult dead

Trap 66 recapture #10 juv. molting to adult dead

Trap 76 Neotoma fuscipes released

Trap 78 Perognathus californicus released

under dead branches of Live Oak 3 m. from creek bed

current 10%, herbs + grass 10% branches 60%, leaf litter 10%

Trap 92 recapture 102 released

under live oak tree 7 meters from dry creek

grass 30%, rocks 10%, low hanging live oak branches 50%, leaf litter 10%

Trap 95 recapture 104 dead

Trap 97 P. boylii alive

Trap 100 Microtus californicus dead

Trap 81 Neotoma fuscipes released

moist hillside 15 meters above creek under large dead limbs

snowberry 10%, limbs 50%, grass + herbs 40%

Trap 86 Neotoma fuscipes released

at base of large moss covered stump on moist hillside

20 meters above creek nearest tree buckeye 2 m. away 10 cm diam

snowberry 10%, herbs 80%, bare dirt 10%

Buildings

Trap Hastings 13 Reithrodontomys megalotis dead

Grassland

Trap 4 recapture 54 dead

Trap 125 recapture 1 released

green grass 50% dry matted grass 50%

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1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 24 Chaparral behind Davis' house

Trap 38 (P. manic.) recapture 55 released

Trap 40 P. truei saved for tissues
alive

Trap 50 P. boylii alive

under dead branch of Live Oak at edge of chaparral

chamise 10%, branches 50%, bare dirt 20%, oak leaf litter 20%

Finished there at 10:30 am. Drove over to J. Bell's Creek.

Trap 41 recapture 22 canopy 80% released

Trap 42 P. boylii ♀ adult canopy 60% dead

Trap 44 P. boylii ♀ adult canopy 80% released

Trap 45 Neotoma fuscipes canopy 80% released

Trap 47 P. boylii ♂ adult canopy 80% released

under live oak 5 meters from creek, next to moss covered rock

snowberry 10%, herbs 10%, rock 20%, leaf litter 60%

Trap 49 P. manic ♂ adult canopy 0% dead

Trap 53 recapture 23 canopy 5% released

Trap 56 shrew canopy 20% alder branches dead

Trap 59 recapture 30 released

Trap 62 recapture 113 canopy 80% released

Trap 63 Neotoma fuscipes released

Trap 65 P. boylii ♂ adult released

Trap 67 P. boylii ♂ juv. released

Trap 68 P. boylii ♀ adult released

Trap 69 recapture 44 canopy 50% alder branches dead

Trap 72 P. boylii ♀ adult 0% canopy released

Trap 73 recapture 51 released

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 24 J. Bell's Creek (continued)

Trap 74 Microtus californicus — released
Trap 75 P. boylii ♂ juv. molting to adult — released
Trap 76 P. boylii ♂ juv. — released

Finished there and packed up. Left Hastings at 1:45pm. Mileage 31111, Got home at 5:20pm. 31523.

Russell Reservation, Contra Costa Co., Calif.

Mar. 29 Left home at 9:00am. Mileage 31360. Got to Russell at 9:30am. Checked in with Al Bianchi and with Bonnie Bowen and Dr. Lidicker who were checking Bonnie's grassland traps.

Set 40 non-folding Shermans at end of road near garbage dump.

71-80 in moist canyon with miner's lettuce, other moist ground cover; blackberries; Live Oaks, Buckeyes, and Laurels.

61-70 in Baccharis in small ravine.

51-60 along road and up a small ravine

41-50 " " " " " "

Finished there at 11:15am.

Set 1-40 folding Shermans in canyon & chaparral 0.3 mi E of office.

1-20 in Laurels + Buckeyes in dry creekbed.

21-40 at bottom edge of chaparral in Baccharis, mint, rocks. Finished there at 12:15pm. At lunch with Bonnie.

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Russell Reservation, Contra Costa Co., Calif.

Mar. 29 Set 41-80 in chaparral and oaks East of Observatory,

41-60 in chamise + mint

61-80 along edge of chaparral-oak border

Set 81-100 and 101-120 in grass + oaks N of Obs.

(81-100) across grass above weather station, under live oaks and down over hill to edge of chaparral.

(101-120) across grass below other lines, into oaks + baccharis, and down along edge of chaparral on S side of patch.

Finished there at 4:30 pm.

Mar. 30 Set to Russell at 8:10 am. Checked traps near garbage dump:

toe clip # saved for tissues

Trap 71 Peromyscus californicus live

at base of moist hillside 8 meters from garbage dump

herbs 20%, leaf litter 80% at < 10cm

blackberry bushes, shrubs + vines < 150cm 60% cover

nearest tree 3 meters Live oak 25 cm. diam.

Trap 77 P. truei ♀ adult 1

under stump of buckeye 20 cm in diam. in moist canyon

5 meters from edge of chaparral patch

herbs + ferns 50%, dirt 30%, leaf litter 20% at ground

vines 10% canopy 95%

Trap 61 P. truei ♂ juv. halfway molted 2

under Baccharis 3 meters high at edge of chaparral

Baccharis 70%, mint 20%, vines 10% canopy 0%

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Russell Reservation, Contra Costa Co., Calif.

Mar. 30 Garbage Dump (continued)

Trap 63 P. calif. saved for tissues live

under Baccharis bush 5 meters from edge of chaparral

Baccharis (1½ meters tall) 60%, vines & herbs, 10%

dirt 30%

Trap 65 P. truei

under Baccharis, 2 meters high 15 meters from edge of chaparral

Baccharis 50%, vines 20%, dirt + twigs 30%

canopy 0%

Trap 66 P. truei ♂ adult 4

under mint 1 meter high 20 meters from edge of chaparral

mint 70%, Baccharis 10%, herbs, 10%, dirt 10%

tree canopy 0%

Trap 67 P. truei ♀ adult 5

under mint + vines 23 meters from edge of chaparral

mint 30%, vines (flower looks like pitcher plant) 20%

dirt 50% tree canopy 0%

Trap 55 P. truei ♀ adult 10

under dead branches 3 meters from edge of soft chaparral

herbs (umbels + vines) 50%, dirt + dead branches 30%,

Baccharis 20% tree canopy 0%

Trap 54 P. truei ♂ adult 11

under Baccharis 3 meters high 3 meters from edge of

soft chaparral vines 50%, Baccharis 50%

tree canopy 0%

Trap 49 P. calif

under dead log 5 meters from edge of chaparral

Baccharis 60%, herbs 20% dirt 20%

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Russell Reservation, Contra Costa Co., Calif.

toe clip #

Mar. 30 Garbage Dump (continued)

Trap 47 P. calif. ♀

under dead branches of Baccharis 20 meters from edge of chaparral tree canopy 0%

Baccharis 50%, herbs 10%, dirt + branches 40%

Trap 42 P. truei ♀ adult 12

edge of chaparral 2 meters from road under Baccharis 3 meters high 60%, herbs 20%, dirt + dead branches 20%

canopy redwood 20%

Laurel Canyon + Chaparral

Trap 36 Sylvilagus

under Baccharis 50% at edge of chaparral

dead branches 50% no tree canopy

Trap 22 P. truei ♂ adult 13

at bottom edge of chaparral 3 meters from dirt road

under Baccharis 50%, herbs 5%, dead branches 30%, bare dirt 15% no trees

(Laurels in canyon)

Trap 1 P. truei ♀ adult 14

at base of rocks under Calif. Laurel canopy 90%

ground cover - leaf litter 95%, ferns 5%

Trap 11 P. truei ♂ adult 15

under dead stump in dry creek bed; nearest tree Laurel, 1 meter, 15 cm diam. canopy 75%

ground cover - leaf litter 70%, dirt 30%

Trap 18 P. truei ♀ adult 20

at base of Buckeye in creek bed (no water) canopy 85%

moss + maidenhair fern 80%, blackberry 20%

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Russell Reservation, Contra Costa Co., Calif.

toe clip A

Mar. 30 Laurel Canyon (continued)

Trap 19 P. truei ♂ adult 21
in dry creek bed under overhanging Baccharis brandes ferns, 20%, mint 20%, ~~Baccharis~~ 40%, dirt 20%
nearest tree Buckeye 4 meters away 35cm diam. canopy 100%

Chaparral E of Observatory

Trap 44 P. truei ♂ adult 22
4 meters from edge of chaparral under mint 50%, chamise 30%, vine 10%, dirt 10% no tree canopy

Trap 50 P. truei ♂ adult 23
20 meters from edge of chaparral
chamise 50%, mint 20%, dirt + branches 30%
no trees

Trap 57 P. truei ♂ adult 24
2 meters from edge of chaparral under mint 50% ~~+ branches~~
chamise 20%, dirt 30% no trees

Trap 67 P. truei ♀ adult 25
at edge of chaparral under mints 30%, leaf litter + branches 70% live oak 3 meters away 30cm diam
canopy 70%

Trap 70 P. truei ♂ adult 30
at edge of chaparral under mint 50%, leaf litter 50%
nearest tree Live Oak 3 meters away 60cm diam
canopy 60% oaks

Trap 72 P. truei ♀ adult 31
1 meter from edge of chaparral in mints 50%, leaf litter 50%
Live Oak 3 meters away 40cm diam. canopy 30%

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Russell Reservation, Contra Costa Co., Calif.

Mar. 30 Chaparral E of Observatory (continued)

Trap 76 P. truei ♂ adult 32

at edge of chaparral under gooseberry 50%, leaf litter 50%
Live Oak 2 meters away 80 cm diam. canopy 70%

Trap 77 P. truei ♀ adult 33

at edge of chaparral under mint 30%, chamise 30%,
leaf litter 40% nearest tree live oak 4
meters away, 80 cm diam. canopy 50%

Grassland and Oaks line

Trap 100 P. truei ♀ adult 34

1 meter from edge of chaparral under dead chamise
branches 20%, herbs 10%, leaf litter 70%
nearest tree live oak 3 meters, 30 cm diam
canopy 60%

Trap 101 Microtus calif. not saved dead

in grassland 3 m. from road
thistle stalks 1 m. high 50%, green grass 50%
no trees

Trap 104 Microtus calif. released alive

as base of gooseberry 1 meter high 30%, dead grass 30%,
green grass 40% no trees

Trap 105 Microtus calif. released alive

dead grass 50%, green grass 50% no trees

Trap 106 Microtus calif. not saved dead

dead grass 40 cm high 50%, green grass 40 cm. high 50%

Trap 111 Peromyscus truei ♂ adult 35

2 meters from chap. patch under Baccharis 60% leaf litter 40%
Live Oak 3 meters away 40 cm diam canopy 60%

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Russell Reservation, Contra Costa Co., Calif.

Mar. 30 Grassland + Oaks, Chap. edge

Trap 113 P. truei ♂ adult 40

under Baccharis canopy 60%, herbs 20%, leafs 20%

Live Oak 4 m away 50 cm diam.

Trap 115 P. truei ♂ adult 41

1 m. from edge of chaparral patch under mint 20%, poison oak 10%, herbs 10%, leaf litter 60%

Trap 116 P. truei ♀ adult 42

at edge of chap patch under Baccharis 40%, mint 40% grass 20% nearest tree 6 m. live oak 50 cm. diam. canopy 0%

Finished there at 12:30 pm, ate lunch with Bonnie, At 1:15 pm drove back to garbage dump to work on sketch map. Finished mapping at 4:00 pm and drove home.

Mar. 31
~~April 1~~ Hot to Russell at 8:00 am. Cold and rainy.

Checked traps at end of road near garbage dump:

Trap 71 recapture #2 released

Trap 77 P. truei ♂ adult 43

Trap 79 P. truei ♂ adult 44

at base of Live Oak 40 cm. diam. on moist hillside canopy 65% poison oak 10%, ferns 20%, herbs 30%, leaf litter 40%

Weather

High Mon	19°C	High Wed	10°C
Low Mon, night	9°C	Low Wed night	0°C
High Tues	21°C		
Low Tues night	4°C		

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Russell Reservation, Contra Costa Co., Calif.

Mar. 31 Garbage Dump (continued)

Trap 62 recapture #4 dead

under Baccharis clump 3 meters from edge of chaparral

Baccharis 50%, dead twigs + branches 30%, herbs 10%, dirt 10% no trees

Trap 65 P. trui ♂ adult 45

Trap 67 recapture #5 dead

Trap 59 recapture #11 bad shape

under Baccharis clump 2 meters from road

Baccharis 30%, poison oak 30%, leaf litter 40%

nearest tree Live Oak 4 meters away 30 cm. diam.

Trap 57 P. trui ♀ adult 50

under Baccharis 2 meters from road

Baccharis 40%, vines 10%, dirt 50% canopy 0%

Trap 56 P. trui ♂ adult 51

under mint 60%, 1 meter from road dirt 40% no trees

Trap 49 recapture #10 ♀ (juv.) ½ molted dead

Started to clear up about 8:45 am. Lots of newt activity during the first hour when it was raining.

Laurel Canyon and Chaparral

Trap 4 recapture #14 released

at base of large rocks 7 meters from edge of chaparral

under laurel tree, 40 cm diam. in moister canyon

ground cover - leaf litter 60%, rock 40%

Trap 8 P. trui ♂ adult 52

under branches of bent over Laurel 70%, miner's lettuce 20%

dirt 10% canopy (buckeye) 20%

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Russell Reservation, Contra Costa Co., Calif.

Mar. 31 Laurel Canyon + Chaparral (continued)

Trap 11 P. calif. ♀ adult bad shape

Trap 19 recapture #20 dead

moved from 18 5 meters

Trap 28 recapture #13 ♂ adult bad shape

under clump of mint near bottom of chaparral-covered hillside 3 meters from grassy area

mint 70%, dirt 30%

Chaparral and Oaks E of Observatory

Trap 44 P. calif save for tissue live

Trap 48 recapture #23 5 meters from last night released

under mint 30% + chamise 20%, dirt 50%, 2 meters from edge of dirt patch in chap. no canopy

Trap 51 recapture #22 17 meters from last night bad shape

under mint 30%, chamise 40%, dirt 30% no canopy

3 meters from dirt patch at edge

Trap 72 recapture #31 same trap as last night dead

Trap 74 P. truei ♂ adult 53

at edge of chaparral under mint 40%, leaf litter 60%

Live Oak 2 meters away 30cm diam canopy 60%

Grassland and Oaks

Trap 104 Microtus californicus dead

Trap 105 Microtus calif. dead

Trap 107 Microtus calif. released alive

dead grass 40 cm high 80%, green grass 30cm high 20%

2 mice in trap { Trap 111 recapture #40 8 meters from last night released

Trap 111 recapture #35 same trap as last night dead

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Russell Reservation, Contra Costa Co., Calif.

Mar. 31 Grassland + Oaks (continued)

Trap 113 recapture #42, 17 meters from last night had to cross 3 meters of grass dead

Trap 114 recapture #41 7 meters from last night dead

Finished there at about noon and drove home.

April 1 Got to Russell at 7:45 a.m. Checked traps at end of road near Garbage Dump;

Trap 73 recapture #2 to 5 meters from last night dead under blackberry brambles in moist canyon

Blackberry 60%, herbs 20%, leaf litter 20%

Live Oak 4 meters away 40cm diam canopy 40%

Trap ~~74~~ 79 recapture #43 7 meters from last night dead

Trap 63 recapture #45 5 meters from last night dead

Trap 68 P. truei ♂ adult released

under Black Sage (mint) ½ meter from dry gully bottom

mint 60%, dirt 40%

Trap 57 recapture #50 same trap as last night dead

Trap 54 P. truei ♂ adult dead

Laurel Canyon and Chaparral

Trap 2 recapture #14 5 meters from last night dead

at base of rocks 4 meters from chaparral

Black Sage 30%, grass 10%, rocks, 30%, leaf litter 30%

nearest tree Laurel 3 meters away 30cm diam. canopy 40%

Trap 20 recapture #12 ← check records on this (21?) ♂ adult released

→ 21

3 meters above creek bed in moist canyon

under Buckeye limb, canopy 60%

Black Sage 30% dirt 70%

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Russell Reservation, Contra Costa Co., Calif.

April 1 Laurel Canyon and Chaparral (continued)

Trap 21 Reithrodontomys megalotis dead
under Baccharis clump 4 meters from road 1
Baccharis 60%, herb 10%, dirt 30% no tress

Chaparral and Oaks E of Observatory

Trap 43 recapture #23 ~~20~~ 15 meters from last night released
under clump of mint (not sage) 50%, dead branches 30%,
dirt 20% 2 meters from edge of chaparral

Trap 57 recapture #24 same trap as Mon. night released

Grassland and Oaks

Trap 105 Microtus calif. dead

Trap 107 Microtus calif. dead

One of the mints is Black Sage, Salvia mellifera (the one in flower now). Vine is Dutchmans Pipe, Aristolochia californica In chaparral near garbage deemp one clump of Blue Nightshade, Solanum umbelliferum

Finished bringing in traps at 12:15 pm.
Final mileage 31

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Russell Reservation, Contra Costa Co., Calif.

Weather records summary composite for north/valley/ and south

Total Monthly Rainfall (in inches)

total "		J	F	M	A	M	J	J	A	S	O	N	D
9.04	1976	0.25	2.64	0.92	0.90	0.00	0.00	0.00	0.64	0.58	0.51	0.61	1.99
20.77		0.48											
21.80	1975	~~1.65~~	6.23	7.06	2.31	0	.05	.16	0.00	0.00	3.45	.36	.53
19.62	1974	3.02	2.80	6.92	2.29	0	0	.83	0	0	.99	1.31	1.46
38.14	1973	11.16	6.21	2.40	.24	0	0	0	0	.49	1.33	11.50	4.81
17.74	1972	1.27	2.45	.64	1.88	0	.12	0	0	.37	3.55	5.29	2.17
15.02	1971	3.19	.13	4.25	1.35	.04	0	0	0	.34	.04	1.48	4.20
33.19	1970	11.85	1.93	1.49	.18	0	0	0	0	0	.71	8.78	8.25
	1969								0	0	2.26	0.80	9.52
	1968												
	1967	12.41	.24	8.83	5.26	.15	.64	0					
1970-76		4.46in	3.20	3.35	1.31	.01	.03	.14	.29	.25	1.51	4.19	3.34
=2.54c—		11.33 cm	8.13	8.51	3.33	.02	.05	.36	.23	.29	3.84	10.6	8.5
yearly	1977												
13in		21.79											
.70cm		24.05											
1970-1975		5.16in	3.29	3.79	1.78	.043	.03	.143		.12	1.65	4.71	3.54
at unusually		13.1cm	8.36	9.63	3.61	.11	.07	.37		.31	4.19	12.0	9.0
end of 1976													

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Russell Reservation, Contra Costa Co., Calif.

Weather records summary composite for 3 stations

Mean minimum temperature (°C)

	J	F	M	A	M	J	J	A	S	O	N	D
1976	5.3	5.7	5.3	6.8	9.7	12.6	13.2	13.9	13.1	12.2	10.7	6.5
1975	4.9	5.5	5.5	4.9	11.2	10.9	13.2	13.2	12.9	11.2	6.4	6.2
1974	6.6	6.5	7.7	7.6	9.1	11.9	13.0	13.0	12.4	12.8	8.2	4.8
1973	6.6	9.5	7.2	10.5	12.5	15.2	15.0	13.7	14.5	12.2	8.6	6.8
1972	5.6	8.8	10.3	8.9	14.1	13.0	15.4	15.4	13.9	13.0	—	—
1971	3.2	3.3	4.7	6.3	6.5	18.1	14.1	12.5	11.1	7.4	5.4	2.4
1970	8.4	5.1	6.7	3.5	7.4	15.0	12.2	11.1	10.3	8.1	8.2	2.4

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Russell Reservation, Contra Costa Co., Calif.

Weather records summary composite for 3 stations

Mean Maximum Temperature (°C)

	J	F	M	A	M	J	J	A	S	O	N	D
1976	8.8	9.2	11.1	12.6	17.6	21.0	21.6	20.5	19.8	19.3	13.8	10.2
1975	8.2	9.0	9.1	9.9	17.2	18.6	21.8	21.5	21.3	15.6	10.4	9.4
1974	8.7	10.2	11.2	13.4	16.8	17.4	22.4	21.9	21.5	17.7	11.4	6.4
1973	8.9	11.9	11.6	18.4	19.7	25.6	23.5	19.2	21.3	17.6	11.2	8.7
1972	8.4	12.0	15.6	14.4	18.6	21.9	23.3	24.1	21.1	16.8	—	—
1971	19.1	18.6	19.6	19.7	23.4	29.4	32.8	34.4	32.6	26.8	17.2	3.2
1970	15.1	19.5	22.7	24.2	32	32.4	34	32.5	36.1	24.3	20.5	13.8
1969												
1968												
1967												

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JOURNAL

Hopland Field Station, Mendocino Co., California

July 3 Left Berkeley at 12:00 noon. Mileage 32267. -72

Arrived at Hopland at 3:00pm. Mileage 32370. Went out at 3:30 pm to set Traps. Set 1-25 nonfolding and 126-140 folding in Rock Pile. Foster Creek 1-20 folding, Foster Hillside 21-40 folding. Chaparral in Orchard Pasture 41-80. Chamise is in flower. Set 81-120 in Parasite Pen D-2. (81-100 in grass oaks) (101-120 in open grassland.) Finished there at 7:00 pm. Had dinner and went to bed at 9:30 pm.

July 4 Went out at 6:45 am to check traps.

Foster Creek

Trap 5 Neotoma fuscipes released
under dead branch next to moss covered boulder in creek bed

Trap 8 Neotoma fuscipes released
by dead stump in creek bed

Trap 11 P. truei ♀ died + saved for repro. emb 1R-1L CR=17mm avg. adult later 105 ← 100
under overhanging trunk of Calif. laurel

Foster Hillside

Trap 25 P. boylii ♂ juv. molting 101
by base of dead log, 1 meter from Black Oak 8cm. diam.

Trap 28 P. boylii ♂ adult 102
alongside dead log with scattered small rocks

Parasite Pen D-2

Trap 92 P. truei ♀ adult, nipples prominent 103
next to big dead stump in live oak grove

Trap 94 P. truei ♀ adult 104
at base of Live Oak in grove in pasture ~~saved for~~ F. Dr. OK

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Hopland Field Station, Mendocino Co., Calif.

July 4 Parasite Pen D-2 (continued)

Trap 95 P. truei ♂ adult 105

at edge of live oak branches that reach the ground

Trap 97 P. manic ♀ adult nipples prominent 110

in tall dry grass next to rock

Trap 103 P. manic ♀ adult 111

in short dry grass meadow, near holes in dirt

Trap 106 P. manic ♂ adult 112

dry grass + bare dirt (gopher mound) in open grassland

Trap 114 P. manic ♀ adult 113

in grassland ½ meter from rock pile

Trap 118 P. manic ♂ adult 114

in dry grass next to rock 50 cm high

Trap 119 P. manic ♀ adult 115

in dry grassland 1 m. from small rocks

Chaparral in Orchard Pasture

Trap 44 P. manic ♂ adult 120

chamise 70%, ceanothus 5%

Trap 49 Neotoma fuscipes

base of 3 m live oak tree

Trap 52 P. manic ♀ adult 121

chamise 80%

Trap 56 P. manic ♀ juv 122

chamise 50%

Trap 80 Neotoma fuscipes

base of brushy pile of dead limbs

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Hopland Field Station, Mendocino Co., Calif.

chaparral (cont.)

July 4 Trap 72 P. boylii ♂ adult 123

at edge of chaparral chamise 50%, dirt 50%
nearest tree Calif. Laurel 30 meters away

Trap 64 P. manic ♀ adult 124

chamise 60%

Rockpile

Trap 25 P. boylii ♀ adult ~~125~~ 225

among 20 cm rocks

Trap 23 P. boylii ♀ adult 130

edge of talus slope, among 30 cm rocks, 50 cm from 15 cm diam madrone tree

Trap 22 P. truei ♂ adult 131

by dead log, edge of manzanita patch

Trap 21 P. truei ♂ adult ~~132~~ 132 left front toes 1&2 clipped

base of 30 cm madrone

Trap 20 P. boylii ♂ juv ~~133~~ 1033

under poison oak bush, near 30 cm rocks

Trap 18 P. boylii ♂ adult 134

among 1m rocks

Trap 17 P. boylii ♀ juv 135

base of 30 cm diam madrone, near boulders

Weather	max (dry bulb)	min.	Lambing Pasture Weather Station
Sat. July 3	85°C	55°C	
Sun.	90°C	55°C	
Mon.	92°C	50°C	

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Hopland Field Station, Mendocino Co., Calif.

Rockpile (cont.)

July 4 Trap 13 P. trueí ♂ adult 140

under large overhanging (2-3 m) rocks, nearest tree: 3 m away, decid. oak, 20 cm diam

Trap 11 P. boylii ♀ juv 141

next to moss-covered rock (30 cm), nearest tree: 2m away, live oak, 40 cm diam

Trap 9 P. boylii ♂ adult 142

under overhanging 1m rock, nearest tree: 2m away, madrone, 40 cm diam

Trap 8 P. trueí ♂ adult 143

base of 30 cm diam madrone

Trap 7 P. boylii ♀ no emb. adult 144

among 1 m boulders

Trap 6 P. boylii ♀ no emb. adult 145

base of 30 cm live oak tree, near 80 cm rocks

Trap 126 P. boylii ♂ adult 150

talus slope, nearest tree: 2m away, buckeye, 15 cm diam

Trap 128 – empty

Trap 129 P. boylii ♀ adult 152

among 80 cm boulders, nearest tree: 4m away, laurel, 10 cm diam

Trap 130 P. boylii ♂ adult 151

among 50 cm rocks on talus slope, nearest tree: 3m away, buckeye 10 cm diam

Trap 133 Neotoma fuscipes

among 50 cm rocks, nearest tree: 2m away, laurel, 50 cm diam

Trap 134 P. trueí ♀ adult 153

among 30 cm moss-covered rocks, nearest tree: 50 cm away, buckeye, 10 cm diam

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Hopland Field Station, Mendocino Co., Calif.

July 4 Vegetation Analysis: Foster Creek

trap #	0-~~15~~ 20 cm	~~15~~ 20-100 cm.	>100 cm.
1	10% dead grass	40% rock 20% dead branches	60% decid. oak
2	60% rocks		70% decid. oak
3	60% dead grass	~~30%~~	
4		30% rock	80%
5		20% dead branch 40% rock	90%
6		20% rocks	80%
7	20% rock		90%
8		20% dead stump	90%
9		10% dead branches	70%
10		10% dead branches	80%
11	40% rocks		80%
12	10% rock	10% dead log	60%
13		50% roots	70%
14	5% dead logs	20% rock	~~60%~~ 60%
15		10% dead branches 10% rock	70%
16			80%
17	10% rock		80%
18		30% rock	70%
19		10% rock	40%
20	5% dead grass	10% dead log	30%
site average	220/20 = 11%	360/20 = 18%	

rocks 140/20 = 7% dead veg 80/20 = 4% rock 200/20 = 10% dead veg 10/20 = 1/2%

does not include leaf litter in 0-20 cm

the >100 cm category is measured by looking up at the canopy and seeing how much of sky is blocked out

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Hopland Field Station, Mendocino Co., Calif.

July 4 Vegetation analysis: Foster Pasture Hillside

tag #	0-20 cm	20-100 cm	>100 cm
21	5% dead grass		50%
22	5% dead grass	20% dead stumps	30%
23			50%
24	70% rock		90%
25	20% dead log 40% rock		30%
26	5% rock		50%
27	10% rocks		70%
28	50% rocks		40%
29		30% dead stumps	20%
30		30% dead stumps	60%
31	50% dead grass		
32			80%
33	5% dead grass		70%
34			90%
35		10% dead branches	70%
36			90%
37	5% dead grass		70%
38			70%
39			80%
40			60%
site average	265/20 = 13.25%	dead veg. 90/20 = 4.5%	1170/20 = 58.5%

rocks 175/20 = 8.75 dead veg. 90/20 = 4.50

Black Oaks have leafed out

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Hopland Field Station, Mendocino Co., Calif.

July 4 Vegetation Analysis: Parasite Pen D-2

trap #	0-20 cm	20-100 cm	>100 cm
81		50% dry grass	40%
82		20% dead branch 30% dry grass	30%
83	5% dead grass	5% oak sprouts 20% dead grass 20% dead branches	20%
84	50% dry grass	50% dry grass, 10% dead branch	20%
85	30% dry grass 20% dead branches	10% dead branch 40% dry grass	20%
86	10% dry grass	10% dead branches	20%
87	10% dry grass		0
88	20% dry grass		10%
89	20% dry grass		20%
90		40% dry grass	20%
91	10% dead branches 20% low grass		0
92	20% dead branches 10% dry grass		50%
93	5% dead branches 5% dry grass		80%
94	5% dry grass	10% live oak sprouts	50%
95	5% dry grass	30% live oak sprouts 10% dead branches	30%
96		10% dry grass	30%
97	20% rock	30% dry grass	0
98	20% dry grass		0
99	10% dead branches 10% dry grass	10% dead stump	30%
100	10% dry grass	10% live oak sprouts	70%
site average	315/20 = 15.75%	415/20 = 20.75%	540/20 = 27.0%

rock $\frac{20}{20}$ = 1% dead veg $\frac{295}{20}$ = 14.75% dead veg 360/20 = 18%

live veg $\frac{55}{20}$ = 2.75%

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Hopland Field Station, Mendocino Co., Calif.

July 4 Vegetation Analysis: Parasite Pen D-2

Trap #	0-20cm	20-100cm	>100 cm
101	70% dry grass		0
102	60% dry grass	10% dry grass	0
103	40% dry grass		0
104	80% dry grass		0
105	70% dry grass	10% dry grass	0
106	40% dry grass	10% dry grass	0
107	30% dry grass	40% dry grass	0
108	30% dry grass	40% dry grass	0
109	60% dry grass	30% dry grass	0
110	60% dry grass		0
111	50% dry grass	30% dry grass	0
112	50% " "	30% " "	0
113	60% " "	20% " "	0
114	20% rocks 50% " "	20% " "	0
115	40% dry grass	40% " "	0
116	30% " "	50% " "	0
117	60% " "	20% " "	0
118	10% rocks 10% dry grass	20% " "	0
119	40% dry grass	30% " "	0
120.	60% " "	20% " "	0
Site avg.	1020/20 = 51%	430/20 = 21%	0 %

rocks $\frac{30}{20}$ = 1.5%

dead veg $\frac{990}{20}$ = 49.5%

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Hopland Field Station, Mendocino Co., Calif.

July 5 Vegetation Analysis: Chaparral in Orchard Pasture

trap #	0-20cm.	20-100cm.	7100cm
41		50% chamise	
42		40% chamise	
43		40% "	
44		60% "	
45		40% "	
46		40% "	
47			50% chamise
48			50% live oak
49			50% " "
50		30% "	
51		40% "	
52		40% "	
53		40% "	
54		40% "	
55		40% "	
56		30% "	
57		40% "	
58		40% "	
59			70% trees & bushes
60	70% grass		
site average	3.5%	610/20 = 30.5%	220/20 = 11.0

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July 5 Vegetation Analysis; Chaparral in Orchard Pasture (cont.)

trap #	0-20cm	20-100cm	>100cm
61		30% chamise	
62		30% chamise	
63		40% chamise	
64		40% chamise	
65		30% ceanothus 10% chamise	
66		40% chamise	
67		40% chamise	
68		30% chamise	
69		40% chamise	
70		40% chamise	
71		40% chamise	
72	10% rocks	~~40% chamise~~	10% chamise
73		30% chamise	10% shrub
74		50% chamise	
75			50%
76		30%	60%
77			60%
78	30% rocks		70% live oak
79			70% live oak
80		30% dead branches	20% canopy
site average	20%	550/20 = 27.5 %	350/20 = 17.5 %

land veg 30/20 = 1.5 diversity 30/20 = 1.5

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Hopland Field Station, Mendocino Co., Calif.

July 5 Vegetation Analysis; Rock Pile

trap #	0-20cm	20-100cm	>100cm
1	5% rock		70% oaks
2		50% rock	40% live oak
3	40% logs, 20% rock		40% live oak
4	50% rock		40% live oak
5	20% rock, 20% log		70% madrone
6		30% rock 5 % log	50% live oaks
7		40% rock	10% trees
8	20% rock		80% madrone
9	10% rock	40% rock	50% madrone
10	10% rock	10% rock	50%
11	30% rock		30% live oak
12	50% rock		20% live oak
13	10% rock		{30% rock {50% trees
14		50% rock	70% trees
15	30% rock	20% rock	10% live oak
16	50% rock		50% madrone
17	40% rock		70% madrone
18		60% rocks	60% live oak
19	10% rock, 5% log		10% live oak tree
20	10% rocks		10% poison oak
21			80% madrone
22	20% dead log		50% manzanita
23	30% rocks		60% trees
24	50% rocks		50% trees
25	10% rocks		40% trees

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Hogland Field Station, Mendocino Co., Calif.

July 5 Vegetation Analysis: Rock Pile (continued)

trap #	0-20cm	20-100cm	>100cm
126	50% rock		50%
127	50% rock	40% rock	70%
128	~~40%~~	40% rock	30% black oak
129	50% rock	50% rock	40%
130		50% "	70% buckeye, laurel
131	30% rock		10% laurel
132		40% rock	40% "
133	20% rock	20% rock	60%
134	30% rock		70%
135		60% rock	50%
136		60% rock	20%
137	20% rock	40% rock	10%
138	30% rock		50%
139	30% rock		50%
140		50% rock	80% laurel

Total cover site avg:

420/20 = 21% 450/20 = 22.5% 980/20 = 49%

dead wood 20/20 = 1 rock 400/20 = 20%

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Hopland Field Station, Mendocino Co., Calif.

July 4 Trap 136 P. truei ♂ adult 154

base of 15 cm buckeye, near 2m boulders

Trap 140 P. boylii ♂ juv 155

base of talus slope, nearest tree; 3 m away, live oak, 1 m diam

Finished there at 12:30pm. Had showers and lunch, at 3:00 pm drove to Mailland State Reserve (Redwoods). Mileage for this side trip; 32390 → 32462 = 72 miles

July 5 Went out at 5:50am to check traps.

Foster Creek

Trap 2 P. truei ♂ adult ~~200~~ 1

base of 70 cm white oak, in stream bed

Trap 4 P. truei ♂ adult 2

by 50 cm rock, in stream bed

Trap 5 Neotoma fuscipes released

Trap 6 P. manic ♂ adult } in same trap 3

Trap 6 P. truei ♀ adult } 4

under overhanging tree trunk and rock, in stream bed

Trap 7 P. truei ♀ adult recaptured 100, now 105

under overhanging roots of laurel tree, in stream bed

Trap 8 Microtus recapture site ~80 m from initial capture site released

Trap 10 Neotoma fuscipes released

by dead branches in stream bed

Trap 14 P. truei ♂ adult 10

by rock (30 cm) in stream bed ~~to~~ under buckeye branches

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Hopland Field Station, Mendocino Co., Calif.

July 5 Checked traps at Foster Cr Pasture Hillside:

Trap 24 P. boylii ♀ juv. 11

under live oak, on talus slope (20 cm diam rocks)

Trap 26 P. boylii ♀ adult 12

under overhanging roots of madrone clump, 30 m above road on talus slope

Trap 27 recap ~20 m from initial cap. recaptured 101

base of black oak tree, on talus slope

Parasite Pen D-2

Trap 86 P. boylii ♂ juv 13

1m from base of 30 cm live oak, under branches of fallen oak

Trap 91 P. truei ♂ juv. molting 14

under dead logs, 10 m from edge of live oak grove

Trap 94 P. truei ♂ adult 15

Trap 95 P. truei ♀ juv 20

Trap 96 P. truei ♀ juv 21

under dead branches, 15 m from live oak tree, edge of grove

Trap 103 recap, same trap recaptured 111

Trap 105 P. manic ♂ juv molting 22

grassland, 10 m from live oak tree

Trap 106 recap, same trap recaptured 112

Trap 112 P. manic ♂ adult 23

grassland, 2 m from 1 m diam rock, 1 m from dirt with burrows

Trap 118 P. manic ♀ adult 24

Trap 119 P. manic ♂ adult 25

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Hopland Field Station, Mendocino Co., Calif

July 5 **Chaparral in Orchard Pasture**

Trap 44 P. manic ♀ adult, nipples prominent 30

Trap 49 King snake

Trap 50 P. boylii ♀ juv. molting 31

30 % chamise, middle of chap. patch, 20 m from live oak

Trap 53 P. manic ♂ adult recapture from March '76 toe clip 33

40 % chamise

Trap 79 Neotoma fuscipes

base of 1 m live oak tree

Trap 74 Microtus calif.

bare dirt under chamise 5 m from edge of chap. 40

Trap 73 P. manic ♀ adult, nipples prom March '76 toe clip

bare dirt under chamise 5 m from edge of chap.

Trap 69 P. manic ♂ adult 32

bare dirt under chamise 5 m from edge of chap.

Rock Pile

Trap 25 recap. same trap recaptured 225

Trap 23 P. boylii ♂ adult 33

Trap 22 P. boylii ♂ adult 34

Trap 21 recap. same trap recaptured 132

Trap 20 P. boylii ♂ adult 35

Trap 19 recap. 15 m from initial cap. recaptured 1033

Trap 16 recap. ~ 200 m from initial cap. recaptured 150

moss covered, 30 cm diam rocks, under madrone

Trap 13 P. truei ♀ adult 40

Trap 12 P. boylii ♀ adult 41

among rocks (moss-covered) edge of talus slope, nearest trees 2 m away, live oak, 6 cm diam

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Hopland Field Station, Mendocino Co., Calif.

Rock Pile

July 5 Trap 11 P. recap 50 m from initial cap. recaptured 144

Trap 10 " 10 m from " " recaptured 141

base of talus slope, nearest tree: 2 m away, hawthorn, 8 cm diam

Trap 9 P. boylii ♀ adult 42

Trap 8 same trap recaptured 143

Trap 7 P. boylii ♀ juv. 43

Trap 6 same trap recaptured 145

Trap 3 P. boylii ♂ adult 44

by base of 1 m live oak, pile of brush

Trap 1 P. truei ♂ adult 45

by 1 m rock, nearest tree: 1m away, black oak, 10 cm diam

Trap 126 P. boylii ♀ adult 50

Trap 127 P. boylii ♂ juv, molting 51

by 1 m rock, nearest tree: 1 m away, toyon, 4 cm diam

Trap 128 P. boylii ♂ juv. molting 52

by 1 m rock, nearest tree: 2 m away, tan oak, 10 cm diam

Trap 129 same trap recaptured dead 152

Trap 133 recap. 30 m from initial cap. recaptured 151

Trap 134 same trap " 153

Trap 136 P. truei ♂ adult " 154

among 1 m rocks, by 15 cm live oak

Trap 139 P. boylii ♂ juv. " 155

by 50 cm rocks, nearest tree: 5 m away, buckeye, 15 cm diam

Trap 140 P. boylii ♂ adult 53

Finished at Rock Pile at 12:00 noon. On July 4 we did vegetation analysis of Foster + D-2, and

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Hopland Field Station, Mendocino Co., Calif.

July 5 on July 5 we did vegetation analysis of Chaparral in Orchard Pasture and Rock Pile. Trapping success seems to be high. It had expected that the dry spring might have affected the mice, but they are fairly abundant, except perhaps in the chaparral. Noticed more reptiles out this trip - possibly because of recent exposure in 107. Western Whiptails (3) in Chaparral, Sceloporus all over, a skink, Eumeces skiltonianus, in the Rock Pile on July 4, and then the Kingsnake in the trap in the Chaparral on July 5.

July 6 Went out at 5:50 am to check traps and bring them in.

Foster Creek Bed

Trap 4 recap. 30 m from initial cap. recaptured 1

Trap 5 Neotoma fuscipes

Trap 8 ~~8~~ P. manic ♀ adult March '76 toe clip ok 21

Trap 9 ~~HR~~ recap. 20 m from preceding night recaptured 105
saved for dissection dead
under dead branches in stream bed

Trap 13 P. manic ♂ adult
under overhanging roots of Calif laurel, in stream bed

Trap 16 recap. 30 m from initial cap. recaptured 10
by base of 30 cm diam laurel, 2 m from stream bed

Trap 17 P. truei ♀ adult
under laurel log, by rock in stream bed

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Hopland Field Station, Mendocino Co., Calif.

July 6 Foster Hillside

Trap 25 recaptured 10 meters from previous night recapture 12

Trap 38 P. truei ♀ adult

in clump of madrones

Parasite Pen - D-2

Trap 88 Microtus californicus released

in grass 3 meters from Live Oak

Trap 91 Tr recap. 40 m from initial cap. recaptured 20

Trap 95 Tr " 10 m " " " recaptured 104

Trap 97 manic same trap " 110

Trap 98 P. manic ♂ adult

" " P. manic ♀ adult

grassland, 20 m from trees

Trap 105 manic same trap recaptured 22

Trap 112 manic " " " 23

Trap 114 P. manic ♂ adult

Trap 120 manic recap. 20 m from initial cap. recaptured 115

grassland, 20 m from live oak trees

Chaparral in Orchard Pasture

Trap 44 same trap recaptured 30

Trap 49 P. boylii ♀ adult, nipples prominent

Trap 72 P. manic ♀ adult

Trap 78 recap. 30 m from initial cap. recaptured 123

among rocks, under live oak trees, 15 m from chap.

Trap 79 Neotoma fuscipes

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Hopland Field Station, Mendocino Co., Calif.

July 6 Rock Pile

Trap 23 same trap recaptured 130
Trap 22 " " " 34
Trap 21 " " " 132
Trap 20 " " " 35
Trap 19 " " as preceding night " 1033
Trap 17 recap. 10 m from initial cap. " 134
Trap 16 same trap as preceding night " 150
Trap 14 P. baylii ♂ adult
next to 1½ m boulder, nearest tree: 3 m away, madrone, 20 cm diam
Trap 13 recap 15 m from initial cap. recaptured 41
Trap 11 same trap as preceding night " 144
♀ no embryos — dead, kept for dissection
Trap 10 recap. 10 m from initial cap recaptured 142
Trap 9 " 10 m " preceding night " 141
Trap 7 " 10 m " " " " dead 143
Trap 6 same trap ♀ no emb. " dead 145
Trap 126 " " recaptured 50 — kept for dissection
Trap 130 Neotoma fuscipes
Trap 131 P. truei ♂ adult
among 50 cm rocks, nearest tree; 5 m away, laurel, 10 cm diam
Trap 133 same trap as preceding night recaptured 151
Trap 134 same trap " 153
Trap 135 recap. ~ 70 m from initial cap. " 131
~~Trap 136~~ base of 2 m boulder, nearest tree: 3 m away, buckeye, 15 cm diam
Trap 136 same trap recaptured 154

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Hopland Field Station, Mendocino Co., Calif.

July 6 Trap 138 (Rock Pile) recap. 20 m from initial trap recaptured 53
base of talus slope, nearest tree: 3 m away, laurel, 50 cm diam
Trap 139 same trap as preceding night recaptured 155
Finished at Rock Pile at ~ 10:30. Packed up and had lunch at bunkhouse. Left Hopland at 12:30 pm. Mileage 32494. ~~Stopped~~ for dinner on the way back. Final mileage 32596. Dissected 3 dead in traps animals on Aug 3, 1976. P. boylii 144 + 145 no embryos, P. truei Foster Creek trap 11 cmb 1R-1L CR=17mm avg.

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Hastings Reservation, Monterey Co., Calif.

July 12 Left Berkeley at 10:10am. Mileage 32631.
Arrived Hastings 1:30pm Mileage 32768.
Went out at 2:45pm to set in Madrone Canyon.
40 Set 1-40 folding thermans there, finished at
3:45pm. Drove over to J. Bells at 4:15pm.
40 Set 1-25 non-folding and 126-140 folding.
Finished there at 5:15pm. Set 41-60 folding in
40 chaparral behind Davis' house, and 61-80 around
buildings + up in chaparral above chinchilla house.
Finished there at 6:15. Set 81-100 and 101-120
40 in grassland, set 121-125 folding plus 15
non-folding from barn around the lab
20 and bunkhouse and 5 along the fence row.
Finished there at 7:30pm. Worked on notes
after dinner and went to bed at 10pm.

July 13 Went out at 6:00am to check grassland -
nothing in those traps. Checked around buildings.
trap i behind lab Perognathus californicus
trap h side of lab Peromyscus maniculatus ♂ adult 121+2
trap f (45) Peromyscus boylii ♂ ~~adult~~ juv. 122 2 toes clipped on back left
next to condemned barn on bare dirt with 100% dry grass
nearest tree live oak 20 meters
trap d Perognathus californicus released
next to concrete lab under Snowberry bushes, 2m. from creek
trap b Neotoma fuscipes released
next to concrete lab under gooseberry bush
nearest tree white oak 5 meters

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JOURNAL

Hastings Reservation, Monterey Co., Calif.

July 13 Checked traps in Madrone Canyon:

trap 2 Peromyscus boylii ♀ adult 123
under blackberry bush in dry creek bed; nearest tree live oak 40cm diam 4m.

trap 3 Peromyscus californicus ♂ adult 124
in dry creek bed under dead branches; nearest tree buckeye 20cm diam 4m

trap 4 Peromyscus boylii ♂ juv. 125
on bank of dry creek bed under laurel and live oak

trap 7 Perognathus californicus released
in dry creek bed 2m from live oak 40cm diam.

trap 8 Peromyscus boylii ♂ adult 130
in dry creek bed next to rock 1m. in diam., under dead branches
nearest tree live oak 4m. away, 40cm diam.

trap 13 Peromyscus californicus ♀ adult 131
under Buckeye, Live Oak, + White Oak 10m. from creek bed
at edge of grassland

trap 18 Peromyscus boylii ♂ adult recapture 102 from March, now 132
under live oak spout at edge of grassland 25m. from creek
nearest tree Buckeye 2m. away, 10cm diam.

trap 23 Peromyscus boylii ♀ adult recapture #14 from March
under dead branches of live oak, 2m. from live oak 40cm diam

trap 25 Perognathus californicus released
under dead branches of live oak 10m. from dry creek bed

trap 28 Peromyscus boylii ♀ adult 133
under dead branches 2m. from live oak 50cm diam.
20m. from dry creek bed

trap 30 Perognathus californicus released
under dead branches 2m. from dry creek bed

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Hastings Reservation, Monterey Co., Calif.

July 13 The traps so far, 1-30, were on the north side of the creek. Nothing in the ten on the south side of creek (N facing slope). Finished there at 9:00 am. Checked traps in Chaparral behind Davis' house;

Trap 63 Peromyscus truei ♀ adult 134
under live oak + legume bush next to Davis' garage

Trap 72 chipmunk released
at edge of chaparral patch under Ceanothus

Trap 75 Neotoma fuscipes released
under chamise + dead branches, 5 m from live oak

Trap 41 Peromyscus californicus ♂ adult 135
under Ceanothus bush at edge of chaparral

Trap 43 Neotoma fuscipes released
under Ceanothus bush at edge of chaparral

Trap 44 Neotoma fuscipes dead
under Ceanothus bush at edge of chaparral

Trap 46 Peromyscus truei ♂ adult 140
under chamise 3 m from edge of chaparral patch

Trap 51 Perognathus californicus released
under chamise 7 m from edge of chaparral

Trap 52 chipmunk 4 white stripes released
under ceanothus bush 10 m from edge of chap. patch

Trap 60 Peromyscus truei ♂ adult 141
under chamise on bare dirt

Finished chaparral at 10:30 am.

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Hastings Reservation, Monterey Co., Calif.

July 13 — J. Bell Ranch - Finch Creek

Trap 126 Peromyscus boylii ♀ adult 142
at base of Madrone clump at top of hill above creek 50m

Trap 129 Peromyscus boylii ♂ adult 143
under snowberry shrubs and tall live oaks 15m from creek

Trap 130 Peromyscus boylii ♀ adult 144
in rocks on hillside 15m. from creek, nearest tree live oak 40cm diam

Trap 133 Peromyscus ~~boylii~~ boylii ♂ adult 145
on dirt next to rock 2m. from creek, 2m. from sycamore 40cm diam

Trap 135 Peromyscus californicus ♂ adult saved
under clump of snowberry 3m. from creek,
nearest tree Laurel, 4m away, 10cm diameter

Trap 138 Peromyscus boylii ♀ juv. 150
next to pile of dead branches 2m. from creek
nearest tree live oak 3m, 10cm diam.

Trap 139 Peromyscus boylii ♀ adult dead
next to large log under live oak 4m from creek

Trap 3 Peromyscus boylii ♂ adult 151
under snowberry + live oaks 5m. from creek
nearest tree live oak 2m away, 20cm diam

Trap 4 Peromyscus californicus ♀ juv. dead
under snowberry 2m from creek laurel 2m away, 15cm dia

Weather	max °F	min. °F
Mon	88°	50°
Tues	86°	44°
Wed	84°	48°
Thurs		

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Hastings Reservation, Monterey Co., Calif.

July 13 J. Bell Ranch - Finch Creek

Trap 6 Peromyscus boylii ♂ adult 152
under snowberry + live oak 3 m from creek
nearest tree live oak, 4 m away, 30 cm diam

Trap 10 Peromyscus boylii ♀ adult 153
next to rocks 1 m from creek
nearest tree alder 3 m. away, 30 cm diam

Trap 13 Peromyscus californicus ♂ adult saved
under overhanging roots of sycamore 2 m from creek

Trap 14 Peromyscus boylii ♂ adult 154
under snowberry on rock 1 m from creek
nearest tree alder 4 m away 30 cm diam

Trap 15 Peromyscus californicus ♀ adult ~~saved~~ died
under snowberry clump 3 m from creek
nearest tree sycamore 5 m away 40 cm diam

Trap 16 Perognathus calif released
under log + rocks 4 m from creek 3 m from sycamore

Trap 17 Peromyscus californicus ♀ adult saved
next to rock 4 m from creek; nearest tree 40 cm diam sycamore 3 m

Trap 19 Peromyscus californicus ♀ adult saved
under snowberry clump 4 m from creek; 6 m from 20 cm live oak

Trap 20 chipmunk released
under snowberry 5 m from creek; live oak 6 m, 20 cm diam

Trap 21 Peromyscus californicus ♂ adult chromosomes saved
under clump of snowberry 4 m from creek, 6 m from 20 cm live oak

Trap 22 Peromyscus calif ♀ adult 155
under gooseberry 5 m from creek, 5 m from 20 cm sycamore

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Hastings Reservation, Monterey Co., Calif.

July 13 Vegetation Analysis J. Bell Ranch - Finch Creek

Trap #	0-20 cm	20-100 cm	7100 cm
126			madrone 90%
127		snowberry 10%	madrone 40% } 80% laurel 40 }
128	rocks 20% snowberry 10%		live oak 40 deid oak 40 } 80%
129	rocks 10% snowberry 10%		oaks 90%
130	rocks 20%	snowberry 10%	oaks + sycamore 90%
131		snowberry 30%	deid oak 10 alder 30% } 40%
132	logs 10% snowberry 10%		sycamore 20%
133	rock 20%	snowberry 20%	
134		snowberry 30%	live oak 10%
135		snowberry 30%	
136		rocks 10% snowberry 40%	laurel 20%
137	~~dead~~ dead branches 30%	snowberry 50%	live oak 10 sycamore 10 } 20%
138			
139	log 20%		live oak 50%
140	rocks 10%	gooseberry 30%	laurel 10%

J Bell Creek (continued)

Trap 23 Peromyscus boylii ♂ adult 20d
under log in snowberry clump 7 m from creek,
nearest tree sycamore 3 m away, 30 cm diam

Trap 24 Peromyscus californicus ♀ adult dead
sparse snowberry 3 m from creek
nearest tree ~~sycamore~~ live oak 2 m away 8 cm diam

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Hastings Reservation, Monterey Co., Calif.

July 13 Vegetation Analysis J. Bell Ranch - Finch Creek

trap #	0-20 cm	20-100 cm	>100 cm
1			live oaks 80%
2		dead branches 20%	live oaks 90%
3		snowberry 30%	live oaks 70%
4	rocks 80/20 = 4%	snowberry 10%	laurel 10%
Site average	dead veg 60/20 = 3%		920/20 = 46%
5	live veg 30/20 = 1.5%	snowberry 30%	live oak 70%
	rocks 310/20 = 5	dead 330/20 = 16% live 330/20 = 16%	
6		live oak sprouts 50% 330/20 = 16%	live oak 10%
II 7	dead branches 10%		live oaks 60%
8		snowberry 10%	live oaks 60%
9		snowberry 20%	alder 90%
10	rocks 30% blackberry 10%		live oak 30% alder 20% } 50%
11		gooseberry 40%	sycamore 20 alder 30 } 50%
12		snowberry 10%	sycamore 20 alder 50 } 70%
13		roots 40%	syc. 50 alder 30 } 80%
14		snowberry 30%	
15		snowberry 10%	
16	log 30%	gooseberry 10%	
17	rock 40%	snowberry 10%	sycamore 50%
18		snowberry 30%	sycamore 10%
19			snowberry 40%
20			snowberry 70%
21		snowberry 30%	alder 30%
22		gooseberry 30%	
23		log 10% snowberry 20%	sycamore 30 live oak 30 } 60%
Site average			
24	snowberry 100%		sycamore 20 live oak 50 } 70
25		snowberry 30%	live oak 50%

3.5% dead 40/20 = 2 live 20/20 = 1% dead 10/20 = 0.5% live 330/20 = 16.5% live 920/20 = 46%

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Hastings Reservation, Monterey Co., Calif.

July 13 Vegetation Analysis Grassland

trap #	0-20 cm	20-100 cm	>100 cm
81 dry grass	60%		
82	50%		
83	60%		
84	60%		
85	40%		
86	80%		
87	40%		
88	50%		
89	70%		
90	50%		
91	50%		
92	60%		
93	60%		
94	60%		
95	70%		
96	80%		
97	50%		
98	70%		
99	70%		
100	80%		
site average	$\frac{1210}{20} = 60.5$		

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July 13 Vegetation Analysis — Buildings

trap #	0-20 cm	20-100 cm	>100 cm
121		mint 50%	locust 80%
122	dry grass 20%	mint 30%	
123	mint 20%		oak sprouts 30%
124	dry grass 10%	mint 30%	roof 10%
125		mint 40%	roof 10%
a	sage 50%		white oak 40%
b			gooseberry 40% } 70% live oak 30% }
c			live oak 30% } 80% snowberry 50% }
d (44)	snowberry 50%		live oak 20%
e	fence 10%		live oak 50%
f (45)	dry grass 10%		roof 10%
g	dry grass 60%		roof 30%
h	oak sprouts →	20%	bldg 30%
i	oak sprouts 10%		bldg 30%
j	manzanita 40%		bldg 10%
k	fence row dry grass 20%		
l	" 50%		
m	" 40%		
n	" 40%		
o	" 40%		

site average

dead veg $\frac{290}{20} = 14.5\%$ dead veg $\frac{10}{20} = 0.5\%$ dead veg $\frac{130}{20} = 6.5$

live veg $\frac{70}{20} = 3.5\%$ live veg $\frac{270}{20} = 13.5\%$ live veg $\frac{370}{20} = 18.5\%$

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July 13 Vegetation Analysis Madrone Canyon

trap #	0-20 cm	20-100 cm	>100 cm
1	dry grass 10%		small tree 50%
2		blackberry 30%	live oak 10%
3		dead branches 30%	live oak 10%
4	poison oak 10%		laurel + oak 60%
5	sprouts 10%		sycamore 20%
6		dead branches 10%	live oak 50%
7	blackberry 5%		live oak 70%
~~9~~ 9	rocks 15%		sycamore 10%
~~10~~ 10		toyon 50%	live oak 70%
~~8~~ 8	rock 20%	dead branches 10%	live oak 10%
11	dry grass 5%	dead branches 20%	live oak 70%
12	dead branches 10% dry grass 5%		live oak 50%
13		oak sprouts 10%	~~live~~ oak + buckeye 50%
14	dry grass 10%		decid. oak 10% live oak 40% } 50%
15	dry grass 10%		decid. oak 10% live oak 20% } 30%
16	dead branches 20%		live oak 10%
17	dry grass 5%		live oak 60%
18		oak sprouts 10%	decid. oak 30%
19	dead branches 10%		live oak 80%
20	dead branches 30%		live oak 10%

site average

dead $\frac{115}{20} = 5.75\%$ dead $\frac{70}{20} = 3.5\%$ live $\frac{200}{20} = 4\%$

veg

live $\frac{100}{20} = 5.0\%$

rocks $\frac{35}{20} = 1.75\%$

live veg $\frac{25}{20} = 1.25\%$

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July 13 Vegetation Analysis Madrone Canyon (continued)

trap #	0-20 cm	20-100 cm	>100 cm
21	dead branches 10%		buckeye 20%
22	dry grass 10%		live oak 50%
23		dead branches 50%	live oak 40%
24	dead branches 10%		buckeye 20%
25	dry grass 5%	dead branches 30%	live oak 20%
26	dead branches 5%		live oak 70%
27	dead branches 20%		buckeye 20%
28	dead branches 20%		live oak 80%
29		dead branches 60%	live oak 50%
30	dry grass 5%	dead branches 10%	buckeye + live oak 30%
31	snowberry 5%		buckeye 10% } 40% live oak 30% }
32			live oak 30 buckeye 20 } 50%
33			buckeye 20%
34		laurel 30%	buckeye 10%
35	dead stump 20%		buckeye 30%
36	snowberry 10%		live oak 40%
37		hawthorn? bush 40%	buckeye 10% } 40% live oak 30% }
38	~~do~~		live oak 10% buckeye 20% } 30%
39	dead branches 20%		buckeye 30%
40		toyon 10%	buckeye 10% live oak 20 } 30%
te average	dead 125/20 = 6.25%	dead 130/20 = 7.5	720/20 = 36%
	live 15/20 = .75%	live 80/20 = 4%	

The Maidenhair ferns are brown. Some Buckeyes flowering but many with dry leaves that are falling off.

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July 13 Vegetation Analysis Chaparral behind Davis' house

trap #	0-20 cm	20-100 cm	7100 cm
41			Ceanothus 50%
42			Ceanothus 30%
43			Ceanothus 30%
44			Ceanothus 40%
45			Chamise 20%
46			Chamise 30%
47		Chamise 60%	
48		Chamise 40%	
49		chamise 30%	
50		chamise 30%	
51			chamise 60%
52			ceanothus 50%
53		chamise 50%	
54			chamise 30%
55		chamise 20%	
56		chamise 20%	
57		chamise 10%	
58		chamise 20%	
59		chamise 20%	
60		chamise 20%	
site average		$\frac{320}{20} = 16\%$	$\frac{340}{20} = 17\%$

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Hastings Reservation, Monterey Co., Calif. II

July 13 Vegetation Analysis Chaparral behind Davis' house (cont.)

trap #	0-20 cm	20-100 cm	>100 cm
61	live oak sprouts 20%		roof 10%
62		oak sprouts 50%	roof 10%
63	rocks 30%		legume 50%
64			gooseberry 50%
65			shrubs 60%
66			shrub 60%
67			shrub 70%
68			shrub 60%
69		chamise 20%	live oak 10%
70	dead branches 20%		live oak 50%
71		dead branches 50%	live oak 50%
72			ceanothus 20%
73		dead branches 20%	live oak 10%
74		dead chamise 30%	
75			chamise 30%
76			chamise 30%
77			chamise 20%
78			chamise 40%
79		chamise 20%	
80		chamise 20%	

site average dead veg $\frac{20}{200} = 10\%$ dead veg $\frac{100}{20} = 5\%$ dead veg $\frac{50}{20} = 1.0\%$

rocks $\frac{30}{200} = 1.5\%$ live veg $\frac{110}{20} = 5.5\%$ live veg $\frac{30}{20} = 1.5\%$

live veg $\frac{20}{20} = 1.0\%$

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July 14 Went out at 6:00 am to check traps.

Grassland

nothing

Buildings

trap f (45) Peromyscus recapture 122 released next to condemned barn, mowed grass

Chaparral behind Davis' house

Trap 47 Peromyscus maniculatus ♀ adult 201
under chamise 8 m from edge of chaparral

Trap 50 recapture #140 25 m from last night
under chamise 5 m from edge of chaparral

Trap 53 ground squirrel released
under chamise 10 m from edge of chaparral patch

Trap 58 Peromyscus truei ♂ juv. 202
under chamise 10 m from edge of chaparral

Trap 80 Peromyscus truei ♂ adult 203
under chamise and ceanothus in middle of hillside patch

J. Bell's Ranch - Finch Creek

Trap 126 recapture #142 same trap as last night

Trap 128 Neotoma fuscipes
next to moss covered rocks under live oaks at top of hill above creek

Trap 132 Peromyscus recapture 143 8 m from last night
alongside large log; nearest tree sycamore 3 m away, 60 cm diam
3 m from creek

Trap 135 Peromyscus californicus ♂ adult 204

Trap 136 Peromyscus californicus ♀ adult 205
under snowberry bushes 3 m from creek
nearest tree laurel 2 m away, 15 cm diam.

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July 14 J. Bell Ranch - Finch Creek (continued)

Trap 13 8 Peromyscus boylii ♂ adult 210

Trap 3 recapture #144 15m from last night

Trap 4 recapture #145 23m from last night

Trap 6 Peromyscus boylii ♂ adult 211

Trap 9 recapture #153 5m from last night

next to moss covered rock under snowberry 3m from creek

2m from alder 30cm diam

Trap 11 Peromyscus boylii ♂ adult 212

under gooseberry next to rocks 3m from creek

2m from alder 25cm diam

Trap 14 recapture #154 same trap as last night

Trap 16 Peromyscus boylii ♀ adult 213

Trap 22 Peromyscus californicus ♀ ♂ adult chromosomes saved

Trap 23 chipmunk Eutamias merriami dead

Trap 25 recapture #200 15m from last night

under snowberry and dead branches 2m from creek

2m from live oak 7cm diam

Madrone Canyon

Trap 8 recapture 130 same trap as last night dead

Trap 10 Neotoma fuscipes released

under Toyon + live oak 4m above creek

1m from live oak 100cm diam

Trap 13 P. californicus recapture #124 20m from last night

Trap 21 Peromyscus boylii ♀ adult 214

under dead branches 4m from creek

nearest tree buckeye 2m away, 10cm diam

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Hastings Reservation, Monterey Co., Calif.

July 14 Madrone Canyon (continued)

Trap 25 Perognathus californicus ? doesn't match dead
March '76 toe clip ~~recapture~~ 54 ?

Trap 26 Peromyscus boylii ♀ adult
under dead branches 4 m from creek
nearest tree live oak 1 m away, 10 cm diam.
not 14 because it was recaptured in Nov 76 maybe #15 ?
only other possibility is #110

Trap 29 recapture #133 P. boylii 8 m from last night
under dead branches 8 m from creek
nearest tree live oak 4 m away, 80 cm diam.

Trap 35 Perognathus californicus released
north to large log 10 m above creek
nearest tree live oak 3 m away, 20 cm diam.

Finished there by 11:00 am. Summarized trapping data and weather data in the afternoon.

July 15 Went out at 6:00 am to check traps.

Grassland

Trap 107 Reithrodontomys megalotis released
in dry wild oats 20 cm tall

Trap 92 Peromyscus maniculatus ♂ adult released
in dry wild oats on 2ª line ½ way up meadow slope

Buildings

Trap d Neotoma fuscipes released

Chaparral behind Davis' house

Trap 63 Peromyscus californicus ♂ juv. released

Trap 63 Peromyscus truei ♀ juv. released

Trap 78 Peromyscus truei ♀ adult released
under chamise at edge of chaparral patch behind house

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July 15 Madrone Canyon

P. boylii

Trap 1 recapture #125, 20m from 1st night at base of small tree 1m from dry creek bed

Trap 2 Peromyscus californicus ♀ adult released

Trap 6 Perognathus californicus released under dead branches in creek bed; nearest tree live oak 4m away, 40cm diam.

P. boylii

Trap 7 recapture #123 20m from 1st night

P. californicus

Trap 8 recapture #124 15m from last night

Trap 20 Perognathus californicus released under dead branches in dry creek bed, 5m from live oak 30cm diam

P. boylii

Trap 18 recapture #132 same trap as 1st night

Trap 15 Neotoma fuscipes released at base of live oak 7m above creek bed next to pile of dead branches at edge of grassland

Trap 11 Peromyscus californicus ♀ juv. released under dead branches 5m from dry creek bed 2m from live oak 10cm diam; at edge of grassland

P. boylii

Trap 24 recapture #214 20m from last night under dead branches 3m from dry creek bed 2m from Buckeye 15cm diam.

Trap 28 Peromyscus boylii ♂ adult

P. boylii

Trap 29 recapture #133 same trap as last night

Trap 40 Peromyscus truei ♂ adult at base of Toyon and live oak 40cm diam next to rocks; 7m above dry creek bed

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July 15 J. Bell Ranch - Finch Creek

Trap 126 recapture # 142 same as previous 2 nights dead

Trap 129 recapture #144 6m from last night

Trap 130 Peromyscus boylii ♂ adult

Trap 132 recapture #143 10m from 1st night

Trap 133 Peromyscus boylii ♀ adult

Trap 134 recapture #205 15m from last night
under snowberry 3m from creek
2m from laurel 10cm diam

Trap 135 recapture #204 same trap as last night

Trap 138 recapture #210 same as last night

Trap 2 Peromyscus boylii ♀ adult
under dead branches next to rock 3m from creek
1m from live oak 15cm diam.

Trap 6 Peromyscus boylii ♀ adult

Trap 7 recapture 211 8m from last night
under dead branches 4m from creek
3m from live oak 10cm diam

Trap 9 recapture #153 same as last night

Trap 11 recapture ~~#202~~ #212 same trap as last night

Trap 13 recapture #213 15m from last night

Trap 14 recapture #154 same as last 2 nights

Trap 16 (recapture) #110 from March '76?
Peromysucs californicus
P. calif ♂ adult
not 110 P. boylii ♀ Madrone
must be #115

Trap 17 Peromyscus boylii ♀ adult dead

Trap 19 chipmunk Eutamias merriami released

Trap 20 Peromyscus calif. ♀ adult

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Hastings Reservation, Monterey Co., Calif.

July 15 J. Bell Ranch - Finch Creek

Trap 22 Peromyscus californicus ♂ adult
Trap 23 Peromyscus boylii ♂ adult
Finished there at 11:30 a.m. Left Hasting at 12:45 p.m.
Mileage 32789. Arrived MVZ 5:00 p.m.
Mileage 32959.

Russell Reservation, Contra Costa Co., Calif.

July 19 Left Berkeley at 11:05 a.m. Mileage 32970.
Hot to Garbage Dump at 11:45. Mileage 32984
Set 25 nonfolding +15 folding Sherman's.
1-10 in Blackberry Canyon, 11-20 in chaparral canyon farthest east, 21-25 and 126-130 along road at edge of chaparral; 131-140 along road and into chaparral a short ways. (Garbage Dump = Soft Chaparral + some oaks + buckeyes)

Set 21-40 at base of hill in chaparral.
Set 1-20 in Laurel Canyon.

Set 41-60 in chaparral east of Observatory.
Set 61-80 at edge of chaparral + oaks east of Observatory. New fire trail intersects trap line near top of hill, so altered some traps so they are more in scattered oaks rather than chaparral edge.

Set 81-90 in grassland, and 91-100 along edge of grassland, oaks, & chaparral. Set 101-120 in grassland. Finished there at 3:45 p.m.

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Russell Reservation, Contra Costa Co, Calif

July 20 Vegetation Analysis: Garbage Dump I

Trap #	0-20cm	20-100cm	>100cm
non-folding 1		shrubs 50%	live oaks 10%
2	blackberry 20%	shrubs 10%	live oaks 30%
3	blackberry 30%		live oak 60%
4		blackberry 40%	live oak 30%
5	bracken 20%		live oak 30%
6			buckeye, no leaves 20%
7			buckeye 10% no leaves ash 10%
8			vines 10% buckeye 10%
9	blackberry 10%		live oak 70%
10	blackberry 10 bracken 40%		laurel 10 live oak 50 } 60%
11	dead branches 10% vines 10%		
12		dead branches 20% Baccharis 10%	
13		Baccharis 10% mint 10%	
14		mint 30%	
15		mint 10% vines 10%	
16		mint 10%	
17		mint 50%	
18			mint 30%
19		mint 20%	live oak 10%
20		vines 30%	live oak 50%

site average

live avg. $\frac{110}{20} = 5.5\%$ live avg. $\frac{290}{20} = 14.5\%$

dead avg. $\frac{10}{20} = 0.5\%$ dead avg. $\frac{20}{20} = 1\%$ $\frac{440}{20} = 22\%$

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Russell Reservation, Contra Costa Co, Calif.

Vegetation Analysis: Garbage Dump II

July 20	Trap #	0-20 cm	20-100 cm	>100 cm
	21			Baccharis 60%
	22			live oak 60%
	23	blackberry 10%		live oak 70%
	24			Baccharis 20% live oak 30%
	25	dead stems 10%		Baccharis 20%
	126		mint 20%	
	127			Baccharis 50%
	128		vines 20%	Baccharis 40%
	129		dead branches 20% Baccharis 30%	Baccharis 20%
	130			Baccharis 50%
	131		dead branches 50%	tree wt, sm blueberries 30%
	132		vines 15% + dead log 30%	Baccharis 40%
	133	log 10%		Baccharis 50%
	134		vines 30%	Baccharis 50%
	135	vines 20%		Baccharis 60%
	136			Baccharis 50%
	137		vines 20%	tree wt, blue berries 10 Baccharis 20 } 30%
	138		vines 20%	Baccharis 40%
	139			Redwood 20 Baccharis 30 } 50%
	140			Baccharis 30%
site average	dead $\frac{20}{20} = 1\%$		leaf $\frac{85}{20} = 4.25$	$\frac{850}{20} = 42.5$
	vine			
	live $\frac{30}{20} = 1.5\%$		live $\frac{155}{20} = 7.75$	
	leaf			

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July 20 Vegetation Analysis: Laurel Canyon

Trap #	0-20 cm	20-100 cm	>100 cm
1			Laurel 80%
2	dry grass 100%		Laurel 50%
3	rock 40%		Laurel 90%
4	rocks 10%		live oak 20 } 70% laurel 50 }
5		dead branches 30%	live oak 70%
6		dead branches 30%	live oak 30 } 40% buckeye 10% }
7		hanging laurel branches 50%	buckeye 10%
8		Baccharis 10%	laurel 40%
9			live oak 30% laurel 50%
10			live oak 30 } 40 laurel 10% }
11	stump 30%		live oak 90%
12			laurel 30 } 60% live oak 30 }
13			leaves dead buckeye 10%
14			Baccharis 20%
15		Baccharis 10% hawthorne 10%	
16	blackberry 10%		no leaves Buckeye 100%
17		mint 10%	Baccharis 10%
18		mint 10%	Baccharis 20% buckeye 10%
19			Buckeye 20%
20			Buckeye 10 Baccharis 30% }

site average rocks $\frac{70}{20} = 2.5$

dead $\frac{60}{20} = 3$%

live $\frac{100}{20} = 5$%

$\frac{150}{20} = 7.5$

most Buckeyes leaves are brown + dried up

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Russell Reservation, Contra Costa Co., Calif.

July 20 Vegetation Analysis: Lower Edge of Chaparral 0.3 mi E Offic. Chaparral II

Trap #	0-20 cm	20-100 cm	>100 cm
21		mint 30%	white oak 10%
22		mint 30%	
23	dead branches 10%		Baccharis 40%
24	mint 10%		Baccharis 40%
25			Baccharis 30%
26	rocks 10%	Baccharis 10%	
27	rock 20%	mint 20%	
28		dead branches 20%	
29		mint 30%	Baccharis 10%
30		dead mint 20%	Baccharis 10%
31		dead mint 30%	
32		Baccharis 30%	
33		Baccharis 20%	
34		Baccharis 30%	
35			Baccharis 50%
36			Baccharis 40%
37			Baccharis 40%
38			Baccharis 30%
39		dead branches 30%	Baccharis 20%
40		dead brush 50%	Baccharis 10%

c average

rock 3/20 = 1.5%

dead veg 10/20 = 0.5%

live veg 10/20 = 0.5%

dead veg 150/20 = 7.5%

live veg 200/20 = 10%

330/20 = 16.5

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Vegetation Analysis: Chaparral E of Observatory

July 20	Trap #	0-20 cm	20-100 cm (Chaparral I)	>100 cm
	41	dry grass 30%		chamise 50%
	42		mint 30%	
	43			baccharis 20 } 40% chamise 20 }
	44		mint 30%	chamise 10%
	45		mint 30%	chamise 30%
	46		chamise 10% mint 40%	~~chamise 3~~
	47			chamise 30%
	48		mint 10%	chamise 30%
	49	rocks 5%	mint 30%	
	50	rocks 20%	mint 50%	
	51	rocks 50%		chamise 40%
	52		mint 40%	
	53			mint 60%
	54	rocks 20%		chamise 30 mint 30 } 60%
	55			chamise 20 mint 20 } 40%
	56			chamise 40%
	57			mint 10 chamise 30 } 40%
	58	rocks 10%		chamise 40%
	59		mint 30%	chamise 10%
	60			mint 30 chamise 10% } 40%
site average		rocks $\frac{105}{20} = 5.25\%$	live veg $\frac{300}{20} = 15\%$	$\frac{530}{20} = 26.5\%$
		dead veg $\frac{30}{20} = 1.5\%$		

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July 20 Vegetation Analysis: Chaparral + Oaks E of Observatory.

Trap #	0-20 cm	20-100 cm	>100 cm
61		mint 40%	
62		mint 30%	
63			chamise 10 } 30% mint 20 }
64		Baccharis 10 } mint 30% } 40%	
65		chamise 10 } mint 20 } 30%	
66	rocks 10%		chamise 10%
67		mint 10%	live oak 30% } chamise 10% } 40
68		~~mint~~ ~~edge~~ 20%	live oak 60%
69		mint 20%	chamise 10 } live oak 10 } 20%
70	dead logs 5%	mint 10%	live oak 40%
71		mint 20%	live oak 60%
72		dead branches 30% mint 10%	live oak 50%
73			live oaks 90%
74			live oak 90%
75			live oak 90%
76			live oak 70%
77		dead branch 10%	live oak 70%
78	dry grass 5%	dead branch 40%	live oak 20%
79		dead branches 50%	live oak 60%
80	dry grass 40%	dead branches 10%	live oak 70%

Site average rocks $\frac{10}{20} = 0.5\%$ live $\frac{274}{20} = 11.5\%$ live $\frac{970}{20} = 43.5\%$

dead wood $50/20 = 2.5$

mint has square stem brown seeds pods

~~page has long narrow leaves~~

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July 20 Vegetation Analysis ; Grassland + Edges

Trap #	0-20cm	20-100 cm	>100cm
81	dry grass 70%		
82	90%		
83	90%		
84	70%		
85	90%		
86	70%		
87	80%		
88	50%		live oak 20%
89	70%		live oak 10%
90	40%		live oak 30%
91			live oak 60%
92			live oak, 30 / Baccharis 20 } 50
93			Baccharis 50 %
94			Baccharis 30 / live oak 70 } 100
95		mint 5 / poison oak 5 } 10%	live oak 40 %
96		mint 20%	live oak 60%
97	dry grass 10%	dead branches 10%	live oak 60%
98			live oak 70%
99		dead branches 10%	live oak 70%
100		mint 10%	live oak 70%
Site average	$\frac{730}{20} = 36.5\%$	litt $\frac{40}{20} = 2\%$	$\frac{345}{10} = 34.5\%$
		dead $\frac{20}{20} = 1\%$	

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Vegetation Analysis: Grassland

July 20	Trap #	0-20cm	20-100cm	>100cm
	101	dry grass 70%		
	102	dry grass 40%		
	103	dry grass 70%		
	104	dry grass 60 green 10		
	105	dry grass 20% green grass 40%		
	106	dry grass 40% green grass 10%		
	107	dry grass 50%		
	108	dry grass 40%		
	109	dry grass 30%		
	110	dry grass 30% green grass 10%	thistle 5%	
	111	dry grass 30%	thistle 5%	
	112	dry grass 40%		
	113	dry grass 40%		
	114	dry grass 40%		
	115	dry grass 60%		
	116	dry grass 70%		
	117	dry grass 30% green grass 30%		
	118	dry grass 30% green grass 20%		
	119	dry grass 40% green grass 10%		
	120	dry grass 30% green grass 10%		

site average

live $\frac{1140}{20} = 7\%$

dead $\frac{860}{20} = 43\%$

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Russell Reservation, Contra Costa Co., Calif.

July 20 Left Berkeley at 6:45am. Arrived at Observatory at 7:20am.

Chaparral East of Observatory

Trap 53 Peromyscus truei ♂ adult recapture ok from March 1st 22
under mint and chamise 6m from edge of chaparral

Trap 66 Peromyscus truei ♂ juv. 100
under sparse chamise brush 10m from edge of chaparral
nearest tree live oak 7m away, 50cm diam.

Trap 76 Peromyscus truei ♀ juv. 101
at base of live oak 7m from edge of chaparral

Trap 79 Peromyscus truei ♀ adult recapture ok from Mar. 30 33
at next to newly cut branch of live oak 10m from chap. edge
nearest tree live oak 3m away 50cm diam.

Grassland + Edges

Trap 84 Microtus californicus released
in dry grass near holes in ground, 2m from patch of
a different kind of grass with some green shoots

Trap 90 Peromyscus truei ♀ juv. 102
at edge of ♀ grassland next to low lying branches of live oak

Trap 99 Peromyscus truei ♀ adult recapture ok from March 7C 34
under live oak 1m from edge of chaparral patch
also dead chamise stems

Weather	daytime high	low that night
Mon	23°C	10°C
Tues	26°C	9°C
Wed	25°C	10°C
Thurs.		

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JOURNAL

Russell Reservation, Contra Costa Co., Calif.

July 20 Grassland + Edges (continued)

Trap 95 Peromyscus truei ♂ adult 103
next to sparse clump of mint + poison oak at edge of chap. path
4m from live oak 50 cm diam.

Trap 108 Microtus californicus released
in dry grass 5m from edge of chaparral
nearest tree live oak 10 m away, 50 cm diam.

Trap 119 Microtus californicus released
in mixed dry and green grass in middle of grassland

Trap 117 Reithrodontomys megalotis released
in dry grass plus green grass 3 m from road

Garbage Dump

Trap 13 Peromyscus californicus ♂ adult saved
under mint, Baccharis, + dead branches 10 m from edge of chap.

Trap 20 Peromyscus truei ♂ adult 104
under vines and mint 2m from live oak 60 cm diam

Trap 21 Peromyscus truei ♀ juv. 105
under large Baccharis clump at edge of chaparral

Trap 129 Peromyscus californicus ♂♀ adult saved
under Baccharis dead + live branches

Trap 133 Peromyscus truei ♂ adult 110
under thick Baccharis clump next to dead logs

Trap 136 Peromyscus truei ♂ adult recapture ok from Mar 7/6 51
under Baccharis dead + live branches at edge of chap

Trap 140 Peromyscus truei ♀ adult recapture ok from March 7/6 12
next to Baccharis bush at edge of road

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JOURNAL

Russell Reservation, Contra Costa Co., Calif.

July 20 Laurel Canyon + Chaparral 0.3 mi. E Office

Trap 3 Peromyscus truei ♂ adult 111
at base of Laurel tree and rock cliff in canyon mouth

Trap 7 Peromyscus truei ♂ adult 112
under overhanging laurel branches at edge of chaparral nearest tree Buckeye 4 m away, 30 cm diam.

Trap 20 Peromyscus truei ♀ adult 113
under Baccharis at edge of chaparral hillside bordering canyon

Finished there by 11:45 am. Stopped to ask Molly
3 about weather records. She is still working on compiling the records, so some years haven't been done at all, like 1968. She feels that in the past 10 years there have been more extremes recently, with several freezes, and more dry weather.

July 21 Started checking traps at 7:30 am.

Chaparral + Oaks E of Observatory

Trap 57 recapture #22 P. truei ♂ adult recapture from Mar. 22
under chamise 2 m high 15 m from edge of patch
10 m from last night

Trap 76 P. truei recapture #33 10 m from last night

Grassland + Edges

Trap 82 Microtus californicus released
in dry grass 7 m from road

Trap 87 Microtus calif. released
in dry grass 7 m from live oak

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JOURNAL

Russell Reservation, Contra Costa Co., Calif.

July 21 grassland Trap 100 ~~from March~~ recapture #34 ~~peromyscus~~ P. truei ~~tracei~~ ♀ adult recaptured 34 3m from last night
under live oak at edge of chaparral patch

Trap 97 P. truei recapture #103 10m from last night

Trap 105 Microtus calif.
in mostly green grass in middle of grassland

Trap 111 Reithrodontomys megalotis dead
under dry thistle in dead grass in middle of grassland

Trap 120 Microtus calif. released
in low 20cm dry & green grass in middle of grassland

Trap 118 Microtus calif. released
in 40cm dry & green grass 7m from road

Garbage Dump

Trap 11 Peromyscus truei ♂ juv. 120
under vines at edge of chaparral

Trap 13 Peromyscus truei ♂ adult 121

Trap 14 P. truei recapture #104 15m from last night
under mint on side of canyon along trail

Trap 21 P. truei recapture #105 same trap as last night dead

Trap 130 P. truei recapture #110 7m from last night dead
under Baccharis & tree wt. blue berries at edge of chaparral

Trap 133 Peromyscus truei ♂ died 7/27/76 ← ~~dead~~

Trap 136 Peromyscus truei ♀ juv 122

Trap 138 truei recapture #12 ♀ adult 10m from last night
under vines & Baccharis at edge of chaparral next to road

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JOURNAL

Russell Reservation, Contra Costa Co, Calif.

July 21 **Laurel Canyon + Chaparral**

Trap 4 recapture #112 10m from last night
at base of laurel tree next to rock cliff

Trap 8 Peromyscus truei ♂ adult 123
under low hanging laurel branches

Trap 19 recapture #113 3m from last night
Finished there by 11:30am.

July 22 Started bringing in traps at Obs. at 7:30am.

Chaparral + Oaks E of Observatory

Trap 55 (recapture) #23 March ♂ ~~boo~~ P. truei 23
under chamise + mint 4m from edge of chaparral

Trap 61 Peromyscus truei ♀ adult
under mint + chamise at edge of chaparral patch

Trap 65 Peromyscus truei ♂ adult
under mint 5m from edge of chaparral

Trap 76 recapture 33 + 101 in same trap together
101 is in same trap as 1st night, 33 is 10m away

Trap 78 Peromyscus truei ♂ adult
under newly cut live oak branch at edge of fire trail
8m from edge of chap.; 3m from live oak 10cm diam

Trap 79 Peromyscus truei ♀ juv. molting to adult

Trap 80 Peromyscus truei ♂ adult saved for chrom.
under newly cut live oak branch 2m from live oak 30cm diam

Grassland + Edges

Trap 81 Reithrodontomys megalotis released
in dry grass + thistle 4m from road

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JOURNAL

Russell Reservation, Contra Costa Co. Calif.

July 22 **Grassland + Edges (continued)**

Trap 98 recapture #34 4m from last night
at base of live oak at edge of grassland + chaparral

Trap 91 Peromyscus truei ♀ adult
under live oak 60cm diam 4m from edge of grassland

Trap 105 Microtus californicus released

Trap 108 Microtus calif. released

missing trap 120, not by its flag; searched field but couldn't find it

Laurel Canyon + Chaparral

Trap 38 Reithrodontomys megalotis dead
under Baccharis and brush pile at bottom edge of chap.

Trap 2 recapture #111 7m from 1st night
under laurel next to rock cliff at edge of grass opening

Trap 11 recapture #123 4m from last night
under hollow root of live oak in dry creek bed of canyon

Trap 12 Peromyscus truei ♀ adult released
by dead branches of laurel under laurel tree 1m away 10cm diam

Trap 19 recapture #113 same trap as last night

Garbage Dump

Trap 6 Peromyscus truei ♂ adult released
at base of Buckeye in moist canyon

Trap 11 recapture #120 same as last night dead

Trap 13 recapture #104 4m from last night back slight

Trap 135 recapture #12 10m from last night saved
under Baccharis 15m from edge of chamisal chap.

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Russell Reservation, Contra Costa Co., Calif.

July 22 Garbage Dump (continued)

Trap 136 recapture #122 same trap

Finished there at 11:45 am. Final mileage 33085.

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JOURNAL

Hi Mountain, San Luis Obispo Co. ~3000'

Aug. 11 Left Berkeley at 9:30 am with Bonnie Bowen for trip to Southern California. Mileage 33153. Stopped at Pozo Ranger Station to find out about campgrounds. Hot to Hi Mtn. Campground in Los Padres Natl Forest at 3:30 pm. Mileage 33392.0. Started setting traps at 4:30 pm in chaparral 1.3 mi NW of Hi Mtn. Campgd. (by rd).

20 Set 41-60 at edge of chaparral patch with chamise, ceanothus, shrub with

60 yellow flowers. Set 60 more folding traps farther up same road, ~.3 mi before lookout station 21-40, 1-20, and 61-80.

9 Set 31-39 in small canyon on N facing slope with laurel, Poison Oak, rocks in dry creek bed.

20 Set 81-100 in live oak woodland under downed branches

15 Set non-folding Shermans 6-20 in dry canyon

~~184~~ with Sycamore, Madrone, at edge of chaparral down road towards Pozo from campsite (400.2 / 399.0) 1.2 mi below camp

10 Set 10 non folding Shermans in next canyon up road towards campground in dry canyon with dried up Maidenhair fern, poison oak, edge of grassland. This canyon is 1.0 mi below campground.

15 Set 130-145 folding Shermans at Hi Mtn. Campground

149 in low beaches + live oaks. Had dinner at ~7:45 pm saw bats flying in opening at edge of hill. at 8:20 pm heard owls calling. Sounded like

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JOURNAL

Hi Mt., Los Padres National Forest, ~3000', San Luis Obispo Co., Calif. (Santa Lucia Range)

Aug. 11 Pygmy Owl, but also had some harsher nasal notes in call. Heard Great Horned Owl in the night.

Aug. 12 Got up at 6:10am. Had breakfast and packed most of the gear. Checked traps around campsite (15 traps).

Hi Mtn Campground ; 5 Peromyscus boylii.

Left there at 7:30am to check other traps.

Oak Grove ; 11 Peromyscus boylii

Chaparral site #1

3 Peromyscus californicus

1 Peromyscus truei

1 Peromyscus boylii

1 Perognathus

Chaparral below Hi Mtn. Lookout

2 Peromyscus boylii — 1 died - threw out

1 Neotoma — released

Canyon between 2 chaparral sites

5 Peromyscus boylii — released 2 of them

Canyon below campsite

4 Peromyscus boylii

1 Perognathus

2d Canyon below campsite

7 Peromyscus boylii

2 Peromyscus californicus

1 Perognathus

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1976

JOURNAL

Queen Bee and surrounding area, Los Padres Natl. Forest, San Luis Obispo Co., Calif.

Aug. 12 Left Hi Mtn. at 11:30 a.m. Drove out past Pozo to Sta. Margarita Lake for gas & ate ~~out~~ our lunch there. Drove to Queen Bee Campground but decided not to camp there because it was a tiny site and noisy neighbors. Started setting traps on the dirt road out from Queen Bee towards main road at 3:15 p.m.

20 Set 61-80 closest to Queen Bee in chamise, manzanita, live oak shrubs.

30 Set 31-60 in chamise chaparral with sage, some manzanita, scattered live oaks.

20 Set 80-100 along main road between Queen Bee turnoff & La Panza campground in chamise with yucca & a few ~~Coulter~~ Digger pines.

25 Set 1-25 non-folding Sherman's at La Panza Campground at edge of chaparral with chamise, scattered pines & live oaks.

20 Set 20 folding 21-30 & 130-139 (end #6) at 1927', at Navajo cutoff, 2 mi from Navajo Campground.

Drove to Carl Koford's shack near Dan MacMillan's house south of Shandon to stay overnight.

20 We set 20 traps around the buildings there.

135 Just going to bed when Carl Koford, Jim Griffin, and Carla Koford arrived. They were a day earlier than expected

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JOURNAL

La Panza Range, Los Padres Natl Forest, San Luis Obispo Co., Calif.

Aug. 13 Got up at 6:15 am. Nothing in traps around buildings.

Navajo Cutoff nothing

La Panza Campground

3 Peromyscus boylii released

2 Peromyscus californicus

2 Peromyscus truei

2 Perognathus

Turnoff to Queen Bee

1 Peromyscus boylii released

2 Neotoma released

Queen Bee #2

2 Perognathus

Queen Bee #1

2 Peromyscus truei

1 Peromyscus boylii released

1 Perognathus died - threw out

Finished there at 10:30 a.m. Drove south to Malibu to Dave Bradfords study site. Leave Highway 1 at Rambla Pacifico and drive 3.5 mi to dirt road (1/4 mi beyond fire station). Started setting traps at 5:00 p.m.

40 Set 61-80 + 41-60 in chaparral with as dense bushes
40 as possible. Set 40 at end of road over hill, 30 partway
30 back along road, 20 at top of hill looking over towards
20 first area. Total 130 traps in Santa Monica Mts.
130

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JOURNAL

Santa Monica Mts., 3.5 mi from intersection of Hwy 1 and Rambla Pacífico Rd, LA Co., Calif

Aug. 13 Finished setting traps at ~
Set up camp at the end of one of the dirt roads at the site. Cooked dinner and worked on journal for a little while after dark.

Aug. 14 Got up at 7:00 am. There had been some mist during the night and we had gotten into Bonnie's tube tent flat on the ground. Checked traps.

1st 40 in shrubby vegetation and rocks.

7 Neotoma fuscipes released

6 Peromyscus truei

30 traps in open shrubby veg, and along road side

4 Neotoma fuscipes released

1 Dipodomys

2 Peromyscus truei

20 traps at top of pass edge of chamise, canotheus some bare sandy dirt.

1 Dipodomys

2 Neotoma fuscipes released

3 Peromyscus truei

40 traps near entrance

6 Peromyscus truei

2 Neotoma fuscipes released

Finished there and stopped in Malibu to call Rudi Berkelhamer at Irvine. Drove to Rudi + Als house and had lunch, then went to Als lab at U C Irvine to process mice. Finished there at ~7:30 pm.

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JOURNAL

Cleveland Natl. Forest
Santa Ana Mts., Riverside Co. + Orange Co., Calif.

Aug. 15 Cog went back to the lab to finish the remaining 12 mice (processed 40 on Saturday including the 2 Dipodomys). Bonnie went to visit friends in Newport Beach, Left Irvine at 3:00 pm, got to Cleveland Natl. Forest at ~4:00 pm.

Riverside Co.
Set 81-100 on road to Elsinore Pk., 2.9 miles SE ~~from~~ of Ortega highway. Set 1-20 2.5 miles SE from Ortega hwy. Set 41-60 1.8 miles SE from Ortega Hwy. Set 61-80 0.7 miles SE from Ortega Hwy.

Orange Co.
Set 131-139 on other side of " " towards Blue Jay Campgrocend 1.1 miles N + E of Ortega Hwy
Set 1-25 non folding Sherman's 1.4 miles from Ortega Hwy N+W in chamise chaparral
Set 21-30 2.3 miles NW of Ortega Highway.
Set 121-130 at Blue Jay Campground in chaparral, 6.2 miles W of Ortega Hwy on the Divide road.

Ortega Hwy (Hwy 74)
6.2 mi NW of ~~El Cariso Station~~ on Main Divide Rd., Santa Ana Mts., Cleveland National Forest, Orange Co. Calif.

Aug. 16 Checked traps at Blue Jay Campground in chaparral with chamise, scrub oaks, scattered Yucca.

1 Neotoma fuscipes released
1 Perognathus died - threw out
1 Dipodomys

Checked 21-30 2.3 miles from Ortega Hwy, towards Blue Jay Campground
1 Dipodomys
Checked 25 nonfolding Shermans in chamise along edge of path.

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JOURNAL

Santa Ana Mts. Cleveland Nat'l Forest, Riverside Co., Calif.

Aug. 16 nonfolding Sherman:

4 Dipodomys
1 Neotoma released
2 Peromyscus eremicus?

1.1 mi N of Ortega Highway:

2 Neotoma released
1 Dipodomys
1 Peromyscus juv. calif?, true?,

0.7 mi SE of Ortega Highway (74)

1 Dipodomys

1.8 mi SE of Ortega Hwy

1 Neotoma
1 Peromyscus eremicus?

2.5 mi SE of Ortega Highway

2 Dipodomys 1 dead in trap, 1 escaped
2 Peromyscus calif

one caught in Cercocarpus (Mt. Mahogony), Manzanita, chamise, the other Peromyscus in chamise with scattered Yucca.

2.9 mi SE of Ortega Highway

1 Peromyscus calif
2 Dipodomys

Finished there at 11:30 a.m. There had been some light rain the night of Aug. 15 but we still caught quite a few animals, just not very many Peromyscus californicus.

0.7 mi SE of ~~El Cariso Sta.~~ on Main Divide Rd, Santa Ana Mts., Cleveland Nat'l Forest, Riverside Co., Calif.

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JOURNAL

Santa Ana Mts., Cleveland Natl. Forest, Riverside Co. Calif.

Aug. 16 Had lunch and went on the el Cariso naturetrail. Some plants of the chaparral community in this area are as follows:

Salvia apiana White Sage
Salvia mellifera Black Sage
Cercocarpus betuloides Birchleaf Mountain Mahogany
Rhus ovata Sugar Bush
Arctostaphylos glandulosa Eastwood Manzanita
Yucca whipplei Chaparral Yucca
Adenostoma fasciculatum Chamise
Ceanothus palmeri Mountain Lilac
Ribes cereum Wax Currant
Eriogonum fasciculatum Wild Buckwheat
Pinus coulteri Coulter Pine
Quercus dumosa Scrub Oak
Libocedrus decurrens Incense Cedar scattered pockets
Quercus chrysolepis Canyon Live Oak

Went out at 4:00 pm to set traps along Main Divide Rd. SE of Ortega Hwy.

40 Set 1-20 + 81-100 2.5 mi from Hwy, same area as last night where we caught 2 P. californicus

40 Set 21-40 + 41-60 2.9 miles from Ortega Hwy.) same area as last night 1 P. calif.

20 Set 60-80 5.1 mi from Ortega Hwy at edge of chap + Manzanita + Live Oaks.

10 Set 121-130 4.7 mi from Ortega Hwy at top of steep slope overlooking Lake Elsinore.

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Santa Ana Mts., Cleveland Natl Forest, Riverside Co, Calif.

(20) Aug 16 Set 101-120 around campground in live oaks. Had dinner + went to bed at ~9:00 pm.

Aug. 17 Got up at 6am. Had breakfast and took down tent, which was wet from dew. Checked traps around campsite: Blue Jay Campground 6.2 mi NW of Ortega on Main Divide Rd. West.

1 Dipodomys merriami

1 Peromyscus boylii

2.5 mi SE of Ortega Hwy (2d night here)

4 Peromyscus californicus

1 Peromyscus eremicus

8 Dipodomys agilis?

3 of the P. calif were in scruboak, Mt. Mahogony, poison oak, at lower edge of chamise hillside.

2.9 mi SE of Ortega Hwy (2d night here)

3 Dipodomys agilis released

2 Neotoma

2 Peromyscus

4.7 mi SE of Ortega Hwy

2 Dipodomys agilis released

2 Peromyscus californicus

5.1 mi SE of Ortega Hwy

2 Dipodomys agilis released

Finished there at 10:00 am. Drove back to hiway and washed up, dried tent. Drove to Irvine and processed 37 mice. Finished there at ~6:00 pm. Went to Rudi's house again for dinner + slept there. Called Smiley Shields to arrange to get into Rustic Canyon.

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JOURNAL

Rustic Canyon, Santa Monica Mts., Los Angeles Co. Calif.

Aug. 18 Had breakfast at Rudi's and then went to Irvine to load our gear. Got dry ice to pack with the carcasses in styrofoam containers. Had lunch at Newport Beach + drove to Rustic Canyon to meet Smiley Shields. He showed us where to trap and we set 80 traps in mature chaparral, hadn't been burned since 1927 according to Smiley. The area was an old estate so there are lots of non-native plantings: Olive trees, ivy, etc. Set the traps at the edge of the hillside across the creek from Shields house, and along the creek bed under Sycamores. Finally reached Terry Bucher and drove to Tarzana to stay with her.

Aug. 19 Got up at 6:30 am and had breakfast. Drove back to Rustic Canyon to check traps.

20 by lower creek:
2 Peromyscus
14 by greenhouse
2 Neotoma released
25 in lower Olive grove
4 Neotoma released
1 Rufous-sided Towhee released
3 Peromyscus calif? (released 1 with ear punch)
20 in upper Olive grove under Sycamores
1 Peromyscus calif
1 Neotoma

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JOURNAL

Rustic Canyon, Santa Monica Mts. L.A. Co., Calif.

Aug. 19 Left Rustic Canyon at 9:45am, Mileage 34052. Stopped at Grapevine to try for Condors. Saw what we thought was an imature and an adult Golden Eagle to the East of Grapevine. Drove to A.D. Edmonston Pump Station overlook but the only birds we saw there were too high up to identify. Carl Koford had told us the best times were 10-12 am and 2-4 pm, and it was ~12:30 pm when we got there. Hot back to Berkeley at ~6:30 pm. Unloaded gear at MVZ after dinner. Final mileage 34537.

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JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Nov. 1 Left Berkeley at 8:45 a.m. Mileage 35266.
Arrived at bunkhouse at 11:15 a.m. Mileage 35368
Went out at 11:45 am to set traps.

Set 1-20 folding in Foster Creek.
Set 21-40 folding on Foster Hillside (21 ~~closest to creek end~~)
Set 41-60 non-folding in Rock Pile on N side
Set 61-80 non-folding in Rock Pile on S side.
Set 41-60 folding in Chaparral in Orchard Pasture Mix
Set 61-80 folding " " " " " S line
Set 81-100 folding in D-2 Grassland with Oaks
Set 141-160 folding in D-2 grassland.

Finished there at ~4:30pm. It gets dark about 5:30 now because of the time change yesterday. Three-quarters moon showing in the late afternoon and early evening. Clear night.

Nov. 2 Went out at 6:30am to check traps. Just barely light then. Plan to save P. boylii and P. maniculatus for tissues to check the loci that appear to differ in frequency between samples so far. Will ~~toe~~ clip and release P. truei starting with toe clip #200 this time.

Rock Pile

trap 61	P. boylii ♀	saved for tissues
Trap 63	P. boylii ♀ juv.	" " "
Trap ~~63~~ 64	P. boylii ~~or P. truei~~ ♀	" " "
Trap 66	P. boylii	bad shape saved for tissues
Trap 68	Neotoma fuscipes	released
Trap 78	P. boylii ♂	saved for tissues

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JOURNAL

Hopland Field Station, Mendocino Co. Calif.

Rock Pile (continued)

Nov. 2 gave to John Codd to skin → Trap 80 shrew Sorex ~~arcatus~~ trowbridgei? dead saved

Checked traps in

Foster Creek

Trap 1	P. trueí	♀	juv.	dead
Trap 2	P. trueí	♀	almost completed molt to adult pelage	200
Trap 4	P. trueí	♀	adult	201
Trap 6	P. trueí	♂	adult	202
Trap 7	P. trueí	♀	adult	203
Trap 10	P. trueí	♀	adult	204
Trap 11	P. manic			saved for tissues
Trap 13	P. manic			saved for tissues
Trap 16	P. trueí	♀	adult	205
Trap 18	P. trueí	♀	juv. beginning molt to adult on sides	210
Trap 20	P. trueí	♀	adult	211

Foster Hillside

Trap 34	P. trueí	♀	adult	212

Weather Data — Lambing Pasture Weather Station

	max. (dry bulb)	min
Mon. Nov. 1	80° F	48°
Tues Nov. 2	84°	46°
Wed. Nov. 3	88°	46°

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JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Nov. 2 Checked traps in Chaparral in Orchard Pasture

Trap 57 P. truei ♂ adult 213

Trap 59 Microtus californicus released

Trap 80 Golden-crowned Sparrow released

Trap 61 Dipodomys californicus released

D-2 Grassland + Oaks

Trap 91 P. truei ♂ juv. ok from July 5, 1976 214

Trap 92 P. truei ♂ adult #15 from a previous time; now 215

Trap 96 P. maniculatus saved for tissues

Grassland

Trap 142 P. maniculatus " " "

Trap 146 P. maniculatus ♀ adult not saved dead

Trap 150 P. maniculatus ♀ adult not saved dead

Trap 154 Microtus californicus released

Finished there at ~2:30 pm. Worked on data the rest of the afternoon. After dinner checked the weather records at the office. Still a very dry year; not much rain last spring and not much so far this fall either.

Nov. 3 Went out at 6:45am to check traps. It had been another clear night with bright moon in the beginning of the evening. Again some condensation on the car in the morning.

ROCK PILE

Trap 53 P. boylii saved for tissues

Trap 64 P. boylii " " "

Trap 71 P. boylii " " "

Trap 74 Neotoma fuscipes released

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Hopland Field Station, Mendocino Co. Calif.

Nov. 3

ROCK PILE (continued)

Trap 77 P. truei ♂ adult ~~recapture~~ 220

Foster Creek

Trap 2 recapture P. truei #200 same trap as last night

Trap 19 recapture P. truei #211 dead

Foster Hillside

Trap 32 P. truei ♂ juv. beginning molt to adult ~~recapture~~ edge 221

D-2 Grassland + Oaks

Trap 92 P. truei ♀ adult #103 from last July dead

Trap 93 P. boy or tr? juv.

Trap 95 P. manic. saved for tissues

Trap 96 P. manic ♂ adult dead

D-2 Grassland

Trap 146 P. manic ♀ adult dead

Trap 147 P. manic ♂ adult dead

Both in same trap { Trap 151 Reithrodontomys megalotis released
Trap 151 Reithrodontomys megalotis released

Trap 152 P. manic. ♂ adult #23 from July 76 dead

Trap 156 P. manic ♀ adult dead

Trap 157 P. manic ♀ adult dead

Chaparral

Both in same trap { Trap 51 P. manic saved for tissues
Trap 51 P. manic " " "

Both in same trap { Trap 53 P. manic " " "
Trap 53 P. manic ♂ adult caught in door dead

Trap 58 Microtus californicus released

Trap 59 Microtus californicus released

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JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Nov. 3 Chaparral

Trap 80 recapture P. truei #213 15m from last night
Trap 77 P. maniculatus saved for tissues
Trap 61 Digodomys californicus (formerly Neotoma) released

In the evening talked with Bob Lane from Public Health in Berkeley. He was up this time to get blood samples from rabbits to test for disease. They have found evidence of Rocky Mtn. Spotted Fever and Colorado Tick Fever? in small rodents, including Peromyscus, at Hopland. The ticks which carry it normally do not attach to man, but they will leave a dying animal to find a new host.

Nov. 4 Went out at 6:30 am to check traps and bring them in.

Grass + Oaks in D-2

Trap 94 P. truei ♀ adult #104 ok from July '76 released from a previous time
Trap 98 Microtus californicus released

Grassland

Trap 154 P. maniculatus ♂ adult in bad shape dead saved for tissues

Chaparral

Trap 49 P. maniculatus saved for tissues
Trap 59 Microtus californicus released
Trap 61 Digodomys californicus released
Trap 80 P. truei ♂ juv. released

Foster Creek

Trap 4 recapture P. truei #201
Trap 8 P. maniculatus saved for tissues

M.F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

No. 4 Foster Creek (continued)

Trap 12 P. ~~boylii~~ trueí recapture #204 ~~dead~~ ~~mutilated~~ released

Trap 18 recapture P. trueí #210

FOSTER HILLSIDE

Trap 37 P. trueí ♀ adult dead

Trap 37 P. trueí ♀ juv. released

Trap 40 P. trueí ♂ adult released

ROCK PILE

Trap 41 P. boylii ♂ saved for tissues

Trap 44 P. trueí released

Trap 49 P. boylii ♀ juv. dead

Trap 58 shrew Sorex ornatus? dead

Trap 62 P. boylii juv saved for tissues

Left Hopland at 12:30pm. Mileage 35455. Final mileage 35557.

M.F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif

Nov. Vegetation Analysis – Rock Pile I

trap #	0–20 cm	20–100 cm	>100 cm
41		rocks 50% dead branch 10%	live oak + laurel 60%
42	rocks 30%	rocks 30%	live oak 50% bare branches 20%
43	rocks 40%		live oak + madrone 70%
44			manzanita 50%
45			manzanita 50%
46	dead branch 5%		madrone 50%
47	rocks 10%		dead branches 20% live oak 20%
48	rocks 10% dead branch 10%		live oak 10% dead branches 10%
49	rocks 30%		live oak 60%
50	rocks 10%	rocks 50%	live oak 10%
51	rocks 30%		madrone 60%
52	rocks 30%		madrone 50%
53		rocks 50%	laurel 10%
54		rocks 30%	Toyon, live oak, madrone 80% rocks 30%
55	rocks 20%		madrone 50% dead tree 10%
56	rocks 40%		live oak 40%
57	dead log 5% rocks 20%		(still has leaves) decid. oak 60%
58		rocks 30%	live oak + madrone 60%
59		rocks 40%	madrone 50%
60		log 5% rocks 20%	live oak 40%
site average	rocks 13.5% dead log 1.0%	rocks 15.0% dead log 0.75%	rocks 1.5% dead log 3.0% live veg 46.5%

M. F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Vegetation Analysis - Rock Pile II

Nov. trap #	0-20 cm	20-100 cm	>100 cm
61	rocks 40%		live oak 50%
62		rocks 60%	live oak 20%
63		rocks 30%	decid oak with leaves 50%
64	rocks 30%		madrone 70%
65		rocks 30%	decid. oak 30 / live oak 20 } 50%
66		log 5% / rocks 40%	decid. oak 20%
67	rocks 20%		live oak + laurel 60%
68	rocks 40%	rocks 10%	live oak + laurel 70%
69	rocks 40%		dead tree 10% / laurel 20%
70		rocks 30%	laurel 30%
71	rocks 50%		laurel 30%
72		rocks 50%	laurel 30%
73		rocks 50%	laurel 10%
74		rocks 60%	laurel 20%
75		rocks 50%	live oak + laurel 60%
76		rocks 40%	dead branches 10% / live oak 60%
77	rocks 20%		dead branches 10% / laurel 10%
78		rocks 60%	live oak 20%
79	rocks 20%		laurel 50%
80		rocks 60%	laurel + live oak 70%

M.F. Smith

1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Vegetation Analysis - Foster Creek

Nov.

trap #	0-20 cm	20-100 cm	7/100 cm
1		rocks 40% dead branches 10%	live oak 50%
2	rocks 20%	rocks 20%	Valley Oak 40%
3			live oak 10% stump 10%
4	rocks 10%	dead branches 20%	live oak 80%
5	log 5%	rocks 20%	live oak 40%
6		rocks 50%	laurel 60%
7		rocks 40%	laurel 70%
8	rocks 10%		laurel 80%
9	dead logs 10%		laurel 70%
10		logs 30%	live oak 30%
11	rocks 10%		dead stump 10% laurel 60%
12		dead branches 30%	laurel 30%
13	logs 40%		live oak + laurel 60%
14	rocks 30%	log 10%	live oak 30%
15	rocks 5%		laurel 70%
16		dead branches 10%	laurel 50%
17	rocks 5%	logs 40%	laurel 40%
18		rocks 40%	live oak 30%
19	rocks 10%		laurel 70%
20	rocks 40%		laurel + live oak 70%
	rocks 7.0%	rocks 10,5	
	dead 2.75	dead 7.5	dead 1,10%
			live 52,10%

M.F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Vegetation Analysis - Foster Hillside

Nov. trap #	0-20 cm	20-100 cm	>100 cm
21	rocks 10% log 20%		black oak 80%
22	log 20%		madrone 10%
23	log 10%		black oak 70%
24	rocks 20%	stump 10%	live oak 10%
25		branches 10%	blackoak 30%
26	log 10%		madrone 50%
27	log 10%		black oak 50%
28	log 10%		madrone 20%
29			black oak 10% stumps 60%
30		stumps 40%	live oak 50%
31			live oak 70%
32	rocks 30%		live oak 50%
33			madrone 40%
34		dead branches 30%	madrone 50%
35		dead branches 10%	live oak 30%
36			live oak 70%
37	logs 20%		live oak 20%
38		logs 50%	live oak 40%
39	rock 5%		madrone 80%
40	stumps 20%		madrone 50%
	rocks 3.25%		
	dead 6.0%	7.5%	dead 3.0%
			live 44.0%

M.F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Nov. Vegetation Analysis - Chaparral

trap #	0-20 cm	20-100 cm	>100 cm
41		chamise 40%	
42		chamise 40%	
43		ceanothus 10% chamise 20%	
44		chamise 40%	
45		chamise 40%	
46		chamise 30%	
47			chamise 40%
48			chamise 50%
49		chamise 20%	scrub oak 10%
50			chamise 20%
51			chamise 40%
52			chamise 20%
53		chamise 30%	
54		chamise 30%	
55		chamise 20%	
56			chamise 20%
57		chamise 30%	
58		manzanita 10% chamise 30%	
59		chamise 30%	
60			chamise 20%
		live 21%	live 11%

M.F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Nov. Vegetation Analysis- Chaparral

trap #	0-20 cm	20-100 cm	>100 cm
61		chamise 10%	~~dead oak brush 10%~~ chamise 30%
62		chamise 20%	~~ceanothus 5%~~ chamise 30%
63		chamise 20%	scrub oak 20%
64		chamise 40%	
65		chamise 20%	
66			chamise 30%
67		ceanothus 20% chamise 10%	
68		ceanothus 10%	chamise 10%
69		~~dead~~ ceanothus 10% chamise 10%	
70		chamise 40%	
71		chamise 20%	
72		rocks 20% chamise 20%	
73		chamise 20%	
74			chamise 30%
75		chamise 20%	shrub 10%
76		chamise 30%	snowberry? 5%
77			chamise 40%
78		chamise 20%	
79			ceanothus 5% chamise 30%
80			dead oak brush 10% chamise 30%
	rock 18.0%		dead oak 5%
	rock 1%		rock 10%

M. F. Smith

1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Nov. Vegetation Analysis - Grassland

trap #	0-20 cm	20-100 cm	>100 cm
141	drygrass 20%		
142	50%		
143	60%		
144	60%		
145	40%		
146	50%		
147	20%		
148	20%		
149	30%	rock 20%	
150	40%	dry thistle 10%	
151	40%		dry thistle 5%
152	40%		
153	40%		
154	rock 10% 40%		dry thistle 5%
155	20%		
156	rock 10% drygrass 20%	bunch drygrass 10%	
157	drygrass 20%	rock 20%	
158	" " 40%		
159	20%		
160	20%		

rock $\frac{20}{20} = 10\%$ rock $\frac{40}{20} = 2\%$ dead veg $\frac{11}{20} = 0.5\%$

drygrass 34.5% dead veg $\frac{40}{20} = 1\%$

M.F. Smith
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JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Nov. Vegetation Analysis – Grass + Oaks

trap #	0-20 cm	20-100 cm	>100 cm
81		dry thistle 10%	live oak 30%
82	dry grass 10%	dead branches 30%	live oak 50%
83	oak sprouts 5%	dead branches 20%	live oak 30%
84	dry grass 10%	dead branches 20%	live oak 30%
85		dead branches 30%	valley oak 30%
86	dead branches 50%		valley oak 20%
87	dead branch 50%		valley oak 20%
88	dead branch 50%		valley oak 20%
89	green grass 5% dead grass 20%		valley oak 10%
90		stump 30%	live oak 10%
91	dead grass 10% logs 10%		
92		dead logs 30%	live oak 40%
93	oak sprouts 10%		live oak 50%
94			(lower turning) black oak 20% live oak 20%
95		dead logs 20%	live oak 30%
96	dry grass 10% rock 20%		
97	dry grass 30%		
98		dead logs 20%	live oak 40%
99	oak sprouts 10%		live oak 20%
100	dry grass 5%		live oak 40%

rock $\frac{20}{20} = 1\%$

dead veg. 6% $\frac{210}{20} = 10.5$

live veg. $\frac{5}{20} = 1.5\%$ 25.5 %

M.F. Smith
1976

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Nov. 10 Left Berkeley at 8:45 a.m. Mileage 35587.

Set 40 nonfolding Shermans at Garbage Dump.
41-50 in canyon at edge of chaparral
51-60 in canyon + Baccharis at edge of chaparral
61-70 in Baccharis chaparral
71-80 in Baccharis chaparral

Set 1-20 folding Shermans at bottom of chaparral next to Laurel Canyon.

Set 21-40 folding Shermans in Laurel Canyon.

Set 41-60 " " in chap. E of Obs.

Set 61-80 " " in Oaks + Laurels N of Obs.

Set 81-100 " " in grassland

Set 141-160 " " "

Nov. 11 Rain started sometime after 10pm. Raining hard when I got to Russell at 7:30 a.m.

Garbage Dump

Trap 62 P. truei ♂ adult saved for tissues

Trap 64 P. truei ♀ adult " " "

74 P. truei ♂ adult " " "

~~72~~

76 P. truei ♂ juv. " " "

~~79~~

78 P. truei ♀ adult #122 from before " " "

gave to Deb Lawhon 79 Reithrodontomys megalotis

Laurel Canyon

Trap 38 P. truei ♀ adult " " "

Lower Edge of Chaparral

Trap 2 P. truei ♀ adult saved for tissues

M. F. Smith
1976

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Nov. 10 — Vegetation Analysis: Garbage Dump I

trap #	0-20 cm	20-100 cm	>100 cm
41		snowberry 10%	live oak 10%
42		blackberry 10%	live oak 10% hawthorne? 10%
43		blackberry 10%	live oak 20%
44		dead branches 10%	live oak 10%
45		dead branches 20%	live oak 20%
46		blackberry 10%	live oak 10%
47	ferns 5%		live oak 20% laurel 10%
48			live oak 40% hawthorne? 10%
49	dead branches 5%		live oak 30% shrub 10%
50		dead branches 10%	no leaves buckeye 100%
51	ferns 5%		buckeye 10%
52	dead branches 5%		buckeye 10%
53	dead branches 5%		buckeye 20%
54		sage 5%	Baccharis 30% Live Oak 10%
55			Baccharis 30%
56		sage 20%	Baccharis 20%
57		dead branches 10%	Baccharis 10%
58		dead branches 20%	Baccharis 20%
59		sage 10%	
60		dead branches 10% ~~sage 20%~~	Baccharis 20%

rocks

dead .75 4.0

live .50 3.75 20.0

~~slide III-4~~

M.F. Smith
1976

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Nov. 10 — Vegetation Analysis: Garbage Dump II

trap#	0-20cm	20-100cm	>100cm
61		sage 10%	Baccharis 40%
62		dead branches 30%	Baccharis 40%
63	dead branches 40%		Baccharis 20%
64		dead branches 30%	Baccharis 10%
65		sage 20%	
66		sage 20%	
67		sage 20%	
68		sage 20%	
69			Baccharis 30%
70			Baccharis 40%
71	dead branches 20%		Baccharis 20%
72		dead branches 10%	Baccharis 20%
73		dead branches 10%	Baccharis 30%
74		dead branches 20%	Baccharis 30%
75		sage 40%	
76		dead branches 30%	Baccharis 10%
77		dead branches 30%	Baccharis 20%
78	dead log 20%		Baccharis 40%
79		dead branches 10%	Baccharis 10%
80	dead log 10%		Baccharis 30%
rocks			
dead	4.5	8.5	
live		6.5	19.5

Baccharis is in seed.

slide #14 75-80

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JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Nov. 10 Vegetation Analysis: Lower Edge of Chaparral 0.3mi. E of Office

tray #	0-20 cm	20-100 cm (chaparral II)	>100 cm
1		dead branches 10%	Baccharis 20%
2		dead branches 100%	Baccharis 20%
3		sage 10%	
4		sage 20%	
5		dead branches 5%	Baccharis 10%
6			Baccharis 30%
7			Baccharis 20%
8			Baccharis 10%
9		sage 10%	
10		sage 5%	
11		sage 20%	Baccharis 5%
12		sage 10%	
13			Baccharis 10%
14			Baccharis 5%
15			Baccharis 10%
16			Baccharis 10%
17			Baccharis 30%
18			Baccharis 30%
19			Baccharis 30%
20			Baccharis 40%
rocks			
dead		1.25	
live		3.75	14.0

M.F. Smith

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JOURNAL

Russell Reservation, Contra Costa Co, Calif.

Nov. 12 Vegetation Analysis : Chaparral East of Observatory

Chaparral I

Trap #	0-20 cm	20-100 cm	100 cm
41		chamise 20 sage 30	
42	rock 10		chamise 30
43		sage 30	
44		sage 20	
45			sage 20
46		sage 20	
47			chamise 20
48		sage 10	chamise 30
49	rocks 20	sage 30	
50		sage 20	
51		sage 20	
52		sage 10	chamise 10
53	rocks 10		chamise 30
54			chamise 30
55			chamise 20
56			chamise 10
57			chamise 50
58			sage 20
59		sage 30	
60			chamise 20
rocks	2.0		
dead			
live		12.0	14.5

M.F. Smith
1976

JOURNAL

Russell Reservation, Contra Costa Co, Calif.

Nov. 12 Vegetation Analysis: Oaks & Laurels N of Observatory

Trap #	0-20 cm	20-100 cm	>100 cm
61		dead branches 30%	live oak 40
62			Live Oak 30 Baccharis 10
63			Baccharis 40
64	log 10		Live Oak 50
65			Live Oak 50
66			Live Oak 50
67			Live Oak 50
68			Live Oak 70
69		dead branches 20	Live Oak 40
70	sage 10		Live Oak 40
71		logs 20	laurel 30
72		poison oak stems 10	laurel 30 dead tree 40
73			live oak 50
74		Baccharis 5	laurel 30
75	dead log 20		laurel 30
76		poison oak stems 5	laurel 60
77			laurel 70
78	log 10		laurel 80
79		poison oak stems 5	live oak 20 laurel 40
80	dry grass 10		live oak 20

rocks			
dead	2,5	3,5	2,0
live	0,5	1,0	46,5

M. F. Smith
1976

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Nov. 12 Vegetation Analysis: Laurel Canyon

trap #	0-20cm	20-100cm	>100cm
21			laurel 70%
22	sage 5%	rocks 10%	laurel 30%
23	sage 20%	rocks 10%	laurel 30%
24		rocks 30%	laurel 80%
25	rocks 40%		laurel 80%
26		dead branches 10%	live oak 30%
27		dead branches 10%	buckeye 10% live oak 10%
28		laurel branches 40%	no leaves buckeye 10%
29		laurel branches 30%	live oak 10%
30			laurel 30% live oak 20%
31		stump 20%	live oak 30%
32			live oak 60%
33			laurel 20%
34			no leaves buckeye 20%
35		rocks 10%	Baccharis 20%
36			buckeye 20%
37	sage 20%		buckeye 10%
38			sage 40%
39		sage 20%	
40		sage 20%	
rocks	2.0	3.0	
dead		2.0	
live	2.25	5.5	31.5

M.F. Smith

1976

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Nov. 10 Vegetation Analysis: Grassland

trap #	0-20cm	20-100cm	>100cm
81	dry grass 30%		
82		30	
83		20	
84		30	
85	green grass 5% dry grass 10%		
86	dry grass 10		
87		10	
88		20	
89	green grass 5% dry grass 10		
90	green grass 5% dry grass 10		
91	dry grass 20		
92		20	
93	green herbs 5% dry grass 20		
94	dry grass 20		
95		30	
96	green grass 10% dry grass 30		
97	green grass 5% dry grass 40		
98	dry grass 30		
99		20	
100		20	

rocks

dead 20.5

litt 1.75

M.F. Smith

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Russell Reservation, Contra Costa Co., Calif.

Nov. 10 — Vegetation Analysis: Grassland II

trap #	0-20 cm	20-100 cm	>100 cm
141	dry grass 30%		
142	green grass 5% dry grass 20		
143	dry grass 30		
144		10	
145		20	
146		20	Baccharis 10%
147		20	
148		30	
149	green grass 5% dry grass 30		
150	green grass 5% dry grass 20		
151	green grass 10% dry grass 20		
152	green grass 20% dry grass 20		
153	green grass 5% dry grass 30		
154	green grass 5%		dry grass 20%
155	green grass 5%		dry grass 10%
156	green grass 10% dry grass 20		
157	green grass 10%		dry grass 20%
158	green grass 5% dry grass 10%		
159	green grass 5% dry grass 10%		
160	green grass 5% dry grass 10		

rocks			
dead	17.5	2.5	
litter	4.75		0.5

M.F. Smith
1976

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Nov. 11 Chaparral E of Obs.

Trap 52	P. trnei ♀	adult	saved for tissues
57	P. trnei ♀	adult	" " "
59	P. trnei ♂	adult	" " "

Rain tapered off between 10 am and noon. Partly cloudy in the afternoon. Took the first night's catch into the lab and bled them.

Nov. 12. Foggy and cold but no rain this morning. Checked traps at Garbage Dump.

Trap 71	P. trnei	juv.	saved for tissues

Lower Chaparral

Trap 18	P. trnei	juv. molting to adult	saved for tissues

Laurel Canyon

Trap 38	P. trnei	adult	saved for tissues

Chaparral E of Observatory

Trap 44	P. trnei	adult	saved for tissues

Grassland

Trap 83	Microtus calif.	dead	saved for Dave Thorne
Trap 143	Microtus calif.	dead	saved for Dave Thorne

Caught a Mus musculus by hand near the Garbage Dump - it had been injured, possibly falling with an oak limb that was across the road. It died on the way back to Berkeley so I kept it refrigerated and gave it to Dick Sage.

M.F. Smith
1976

JOURNAL

Russell Reservation, Contra Costa Co, Calif.

Nov. 8 Out to Russell at 7:20 to check traps and bring them in.

Grassland

Trap 96 *Microtus californicus* live saved for DTK

Oak-Bay Woodland N of Obs

Trap 78 P. *truei*

Lower Chaparral

Trap 2 P. *truei* (juv.)

Garbage Dump

Trap 56 P. *calif.*

It was fairly cold and wet throughout this trapping period. Activity seemed to be depressed, possibly by the weather.

Weather Data from station in Grassland near Observatory

	max.	min.
Wed.	17°	10° Wed night
Thurs.	~~10~~ 11°	9° Thurs night
Fri	16°	10° Fri night

M. F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Nov. 18 Left Berkeley at 9:00 a.m. Mileage 35724. Arrived Hastings at 12:30 p.m. Talked to Rocky, Florence, + Brad, then went to set traps in Madrone Canyon.

1-20 along creek
21-40 21-30 along creek, 31-40 on hillside
Set 41-80 on hill behind Davis' House
41-60 in chamise + ceanothus by Red House
61-80 in oaks + chap. behind Davis' House
Set 81-100 lower line in grassland
141-160 upper line in grassland
Set 41-80 Iron-folding Shermans at Jimmie Dell's along Finch Creek. Florence helped me set the chaparral, grassland, and riparian lines.
Set 161-180 around buildings.

Had dinner at the Red House with Walt, Florence, Brad, + Rocky. Hot to bed at ~10:15 p.m. Clear night with lots of stars. No moon showing yet.

Nov. 19 Hot up at 6:15 a.m. Went out at 6:45 to check traps. Some condensation on the car but not too cold.

Around Buildings:

trap 168 Neotoma fuscipes released
trap 169 Perognathus californicus
trap 179 Peromyscus boylii

M. F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Nov. 19 Grassland

trap 152 Microtus californicus — released

Chaparral behind Davis' House

trap 68 ~~Perognathus~~ Neotoma fuscipes — released

trap 68 Perognathus californicus

trap 69 Neotoma fuscipes — released

trap 46 Dipodomys

trap 56 Dipodomys

trap 59 Peromyscus truei

Madrone Canyon

trap 1 Peromyscus boylii ♂ adult — dead

trap 2 Peromyscus boylii ♂ juv. — dead

Trap 3 P. calif. — saved for tissues

trap 4 P. boylii ♀ adult — 201

trap 8 Perognathus californicus

trap 9 Peromyscus boylii ♂ adult — 202

trap 10 Peromyscus californicus — saved for tissues

trap 25 Peromyscus boylii ♀ adult #14 from before — now 214 ~~203~~

trap 26 Peromyscus boylii ♂ adult

trap 34 Peromyscus californicus — saved for tissues

trap 36 Peromyscus californicus — saved for tissues

J. Bell Ranch - Finch Creek

Trap 50 Peromyscus boylii ♂ adult — dead

trap 54 Perognathus californicus

trap 56 Peromyscus californicus — saved for tissues

trap 57 Peromyscus boylii ♂ adult — 215

trap 60 Peromyscus californicus — saved for tissues

M.F. Smith
1976

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Nov 14 J. Bell Ranch (continued)

trap 70 ~~Sorex~~ dead

trap 71 Peromyscus boylii ♂ adult 220

trap 72 ~~Sorex~~ dead

trap 73 Neotoma fuscipes released

trap 75 Peromyscus californicus saved for tissues

Friday night	truei	boylii	calif	mantc
40 Madrone Canyon		//// /	////	
40 J. Bell Ranch - Finch Cr.		///	///	
40 Chaparral	/			
40 Grassland				
20 Buildings		/		
Saturday night				
40 Madrone		//		
40 J. Bell		///	/	/
40 Chag	//		/	
40 Grass				
20 Bldgs		//		
Sunday night				
40 Madrone		//	////	
40 J. Bell		//////	??	/
40 Chag	/// ??	/		
40 Grass				
20 Bldgs		/		
	8?	~~25~~ 28	15? 14	2

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Hastings Reservation, Monterey Co., Calif.

Nov. 19 Finished at Finch Creek at ~12:30pm. Came back and helped unload books donated by Laidlow Williams. Mammal Class arrived so + talked to them for a while. Reset Chaparral line at 4:00, then drove to Bell's and set 2 bat nets with Don Stacey. Didn't catch anything before dinner or after, so brought the nets in. Mark Hafner + Jim Patton talked after dinner, Mark on heteromyids in the Mohave, Jim on the ~2 months they spent in Peru in 1968.

Nov. 20 Around Buildings

trap 161 Peromyscus boylii ♀ adult 221
trap 162 Neotoma fuscipes released
trap 166 Peromyscus boylii ♀ adult 222
trap 168 Neotoma fuscipes released

Chaparral behind Davis' house

trap 62 Perognathus californicus released
trap 67 Neotoma fuscipes released
trap 69 Neotoma fuscipes released
trap 71 Peromyscus truei
trap 75 Neotoma fuscipes released

Weather	max	min.
Thurs.	78° F	42°
Fri.	74°	43°
Sat.	66°	38°

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Hastings Reservation, Monterey Co., Calif.

Nov. 20 Chaparral behind Davis' House (continued)

trap 51 Peromyscus californicus

trap 59 Peromyscus truei

Grassland

trap 152 Microtus californicus released

Madrone Canyon

trap 2 Peromyscus boylii ♂ (juv.) 223

trap 4 recapture #206 P. boylii ♀ adult (same trap as last night) dead

trap 29 Peromyscus boylii ♂ adult 224

J. Bell Ranch - Finch Creek

trap 48 Peromyscus ~~boylii~~ maniculatus ♂ saved for tissues

trap 50 Peromyscus boylii ♂ juv. dead

trap 54 Neotoma fuscipes released

trap 70 Peromyscus boylii ♀ juv. dead

trap 73 Neotoma fuscipes dead

trap 75 Peromyscus californicus saved for tissues

trap 78 Peromyscus boylii ♂ adult 225

Ate lunch and then drove over to the Arnold place with Walt + Florence. Saw the sites of some of Walt's Acorn Woodpecker groups. Saw "Miss Bianca", the albino woodpecker, plus a flock of Cedar Waxwings in a clump of Madrones eating the Madrone berries. Got back at ~5:00 and reset the lines in the chaparral and around the buildings. Fed the mice and went over to have supper with the class.

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Hastings Reservation, Monterey Co., Calif.

Nov. 21 Went out at 6:45 pm to check traps.

Around Buildings

trap 166	Peromyscus boylii ♀ adult	released
trap 173	Neotoma fuscipes	released

Chaparral behind Davis' House

trap 45	Perognathus californicus	released
trap 57	Peromyscus truei ♀	saved for tissues dead
trap 58	Peromyscus truei ♂ juv.	saved for tissues
trap 59	Peromyscus truei ♂ juv.	" " "
trap 61 62	Perognathus californicus	released
trap 62	Peromyscus boylii ♂ adult	released
trap 65	Neotoma fuscipes	released
trap 69	Neotoma fuscipes	released.
trap 67	Peromyscus truei juv.	saved for tissues dead
trap 66	Peromyscus truei	saved for tissues
trap 60	Perognathus californicus	released

Grassland

trap 152	Microtus californicus	released
same trap trap 158	Reithrodontomys megalotis	released
same trap trap 158	"	dead

Madrone Canyon

trap 2	Peromyscus boylii juv.	released
trap 6	Perognathus californicus	released
trap 13	Peromyscus boylii ♀ adult	released
trap 29	Peromyscus californicus	saved for tissues
trap 35	Peromyscus californicus	" " "
trap 35	Peromyscus californicus	" " "

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Hastings Reservation, Monterey Co., Calif.

Nov. 21 Madrone Canyon (continued)

trap 46 Peromyscus californicus saved for tissues

J. Bell Ranch

trap 49 Peromyscus maniculatus saved for tissues

trap 50 Peromyscus ~~calif.~~ boylii " " "

trap 54 ~~Peromyscus~~ sorex dead

trap 56 Peromyscus boylii ♀ juv released

trap 57 Peromyscus boylii juv. saved

trap 64 Peromyscus boylii juv. saved dead

trap 70 Peromyscus boylii ♂ adult released

trap 72 Peromyscus boylii ♀ adult released

trap 75 Peromyscus californicus saved for tissues

trap 77 Peromyscus boylii released

Left Hastings at 2:00 p.m. Mileage 35895. Got to LSB at 5:00 and unloaded mice + traps. Final mileage 36033.

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Hastings Reservation, Monterey Co., Calif.

Nov. Vegetation Analysis; Buildings

trap #	0-20 cm	20-100 cm	>100 cm
161	herbs 10 %		building roof 20 scrub oak 40
162			manzanita 40
163	herbs 10		roof 30
164		scrub oak 20	roof 30
165	green grass 40		roof 30
166	green grass 30 rock 30		roof 30
167	green grass 10		roof 30
168		fence 20	live oak 60
169		sage 30	roof 20
170			live oak 10 roof 20
171	rocks 30		live oak 20 roof 20
172			live oak 20 wild rose 10
173			live oak 10 Baccharis 20
174		shrubs 10	roof 20
175	shrubs 10		roof 10 locust 10
176	green grass 5	sage 10	roof 20
177	herbs 10		locust 10
178	green grass 10		mulberry? 20
179	herbs 10		roof 20
180	herbs 10		roof 10
forks	$\frac{60}{20} = 3.0$		
deal		1.0	15.5
live	$\frac{155}{20} = 7.8$	$\frac{70}{20} = 3.5$	13.5

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Nov. Vegetation Analysis; Grassland I

trap #	0-20 cm	20-100 cm	>100 cm
81	green herbs 30 dry grass 10		
82	green herbs 30 dry grass 10		
83	green 10 dry 30		
84	green 10 dry 50		
85	green 10 dry 30		
86	green 10 dry 30		
87	green 5 dry 30		
88	green 5 dry 30		
89	green 5 dry 20		
90	green 10 dry 20		
91	dry 20		
92	dry 40		
93	dry 30		
94	green 5 dry 5		
95	green 5 dry 5		
96	green 10 dry 20		
97	green 10 dry 10		
98	dry 20		
99	green 5 dry 10		
100	green 10 dry 30		

rocks	
dead	22.5
live	8.5

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Nov. Vegetation Analysis: Grassland

trap #	0-20 cm	20-100 cm	>100 cm
141	green 5 dry 40		
142	green 10 dry 10		
143	green 5 dry 40		
144	green 5 dry 10		
145	green 10 dry 20		
146	green 10 dry 20		
147	green 5 dry 40		
148	dry 30 green 6		
149	dry 20 green 5		
150	dry 30 green 10		
151	dry 20 green 10		
152	dry 20 green 5		
153	dry 10 green 10		
154	dry 10 green 5		
155	dry 10 green 10		
156	dry 10		
157	dry 40 green 20		
158	dry 10 green 5		
159	dry 30 green 30		
160	dry 10		

rocks

dead 21.5

live $\frac{165}{20} = 8.25$

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Nov. Vegetation Analysis: Madrone Canyon I

trag #	~~trap #~~	0-20 cm	20-100 cm	>100 cm
	~~blackberry~~ 10			
1	green grass 10			plum? tree 20
	dead branches 20			
2	blackberry 10			live oak 30
3	rock 10		dead branches 10	live oak 20
4				live oak 40
5	herb 5			sycamore 10
6	Rockberry 5			live oak 20
7	blackberry 5		dead branches 20	live oak 50
8				live oak 50
9	rock 30		scrub oak 10	live oak 10
10	rock 30		dead branches 10	live oak 10
11	dead branches 10		scrub oak 10	live oak 10
12	dead branches 10			live oak 30
13			dead branches 20	live oak 30
14	green grass 5		dead branches 30	live oak 40
15			scrub oak 20 snowberry 10 ↓	live oak 20
16				live oak 10
17	green grass 10			live oak 40
18	dry grass 10 dead log 10			live oak 20
19			dead branches 40	live oak 60
20	green grass 40 dead branches 20			live oak 40
rocks	3.5			
dead	4.0		6.5	
live	5.0		2.5	28.0

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Hastings Reservation, Monterey Co., Calif.

Nov. Vegetation Analysis; Madrone Canyon II

trap #	0-20 cm	20-100 cm	>100 cm
21	dead branches 20		live oak 10 buckeye 10
22	dry grass 10 rocks 20		live oak 40
23		dead branches 40	live oak 40
24		dead branches 30	live oak 30
25	greengrass 10		live oak 40 dead branches 30
26		dead branches 30	live oak 30
27	rocks 10	dead branches 30	buckeye 10
28		dead branches 30	live oak 40
29			live oak 40 dead branches 50
30	greengrass 10	dead branches 30	live oak 40
31	rocks 10	dead branches 10	live oak 40
32	rocks 5		live oak 30 dead branches 20
33	rocks 5		buckeye 10
34		downed laurel branches 30	buckeye 10
35	dead log 15 herbs 5	shrub 10	buckeye 10 live oak 50
36	dead branches 40		buckeye 10 live oak 10
37		gooseberry 10 scrub oak 20	buckeye 10
38		dead branches 40	
39	rocks 30	toyon 20 scrub oak 10	live oak 50 buckeye 10
40		dead branches 30	
rocks	4.0		
dead	4.3	15.0	5.0
live	1.3	3.5	28.5

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Hastings Reservation, Monterey Co., Calif.

Nov. Vegetation Analysis: Chaparral behind Davis' House

trap#	0-20 cm	20-100 cm	>100 cm
41			ceanothus 60 %
42			ceanothus 40
43			ceanothus 50
44			ceanothus 50
45			chamise 30
46			chamise 30
47		chamise 20	
48		chamise 40	
49		chamise 40	
50		chamise 40	
51			ceanothus 50
52			chamise 30
53		chamise 30	
54		chamise 30	
55			chamise 30
56			chamise 20
57			ceanothus 10 chamise 20
58			ceanothus 40
59		chamise 20	
60		chamise 20	
rocks			
dead			
live		12.0	23.0

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Hastings Reservation, Monterey Co., Calif. II

Nov. Vegetation Analysis: ~~Hi~~ Chaparral behind Davis' House

trap #	0-20 cm	20-100 cm	>100 cm
61			roof 20 shrub 20
62			roof 20 shrub 40
63			shrubs 80
64	herb 10	ceanothus 20	
65		chamise 10	live oak 20
66		dead branches 40	live oak 40
67			ceanothus 40
68			ceanothus 40
69			~~ceanothus 50~~ ~~live oak 20~~ ~~dead branches 50~~
70			live oak 20 dead branches 50
71			ceanothus 50
72			ceanothus 50
73			live oak 60
74			chamise 50
75			chamise 10 ceanothus 50
76			chamise 50
77		chamise 20	
78			ceanothus 30
79			ceanothus 40
80			chamise ~~ceano~~ 30
rocks			
dead		2.0	4.5
live	0.5	2.5	38.5

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Hastings Reservation, Monterey Co., Calif.

Nov. Vegetation Analysis; J. Bell Ranch - Finch Creek I

trap #	0-20 cm	20-100 cm	>100 cm
41			laurel 20 madrone 50
42		snowberry 10 rocks 30	laurel 30 madrone 30
43	rocks 30	gooseberry 10	blackoak 30 live oak 30
44	rocks 30		laurel 10 live oak 80
45	log 10 rocks 20		sycamore 10 laurel 10 live oak 60
46	rocks 40	snowberry 10	live oak 80
47	herbs 10		live oak 40 snowberry 10
48	herbs 20	snowberry 10 log 30	sycamore 20
49	rocks 20		sycamore 20 scrub oak 20
50	green grass 20 rocks 20	snowberry 10	
51	stones 10		snowberry 10 laurel 20
52	logs 10 blackberry 10	snowberry 20	
53	herbs 20 rocks 10	snowberry 10	laurel 20
54	herbs 10 rocks 40		alder 30
55		rock 50	alder 70 rock 50
56	rocks 20 dead branches 30		scrub oak 20
57	log 40 rocks 30		laurel 30
58	herbs 20 log 40		live oak 30
59	rocks 20	gooseberry 10	laurel 20
60	rocks 10	dead branches 30	live oak 30

rocks	15.0	4.0	2.5
dead	6.5	3.0	
live	5.5	4.5	41.5

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Hastings Reservation, Monterey Co. Calif.

Nov. Vegetation Analysis; J. Bell Ranch - Finch Creek II

trag#	0-20 cm	20-100 cm	>100 cm
61	rock 10	dead branches 20	live oak 70
62	rock 10 dead branch 10 ~~herbs 20~~		laurel 60
63		snowberry 10	live oak 70
64	rocks 40	snowberry 20	alder 30
65	log 10 rocks 10.		live oak 60
66	rocks 60		alder 70
67	rocks 40	snowberry 30	live oak 10 sycamore 20
68	rocks 20		alder 20 sycamore 20
69	rocks 30		alder 20 sycamore 20
70	~~herbs~~ log 20 rocks 30		
71	herbs 10	log 30	snowberry 20
72	rocks 40	snowberry 10	
73	rocks 20	snowberry 30	sycamore 10
74	greengrass 20	snowberry 10	sycamore 10
75	herbs 20	snowberry 10	live oak 40
76	herbs 20	snowberry 20	alder 10
77	herbs 20	gooseberry 20	alder 10
78	herbs 10 log 20		sycamore 40
79	herbs 10		live oak 30 sycamore 20
80	herbs 20	gooseberry 10	live oak 50
rocks	15.5		
dead	2.5	2.5	
live	8.5	8.5	35.5

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JOURNAL

Southern Calif. trip San Gabriel Mts. LA Co. Calif.

25 Nov. 24 Left Berkeley at 5:45am Mileage 80845. accompanied by Don Feeney and John Cadle. Drove to San Gabriel Mts N+E of Sunland. 81248 Set out 100 folding Sherman traps in chaparral at Switzer Station. This area burned in 1959. Set 40 just up the road at the "Taming a Canyon" sign. We were questioned by a Dept. of Interior officer about the exempt car but he was satisfied with our explanation. Set 27 folding and 23 non-folding at Short Cut Saddle. It was getting dark and we realized we were getting low on gas, so we drove back down to La Cañada. Couldn't find the campground at Millard that was marked on the Forest Service map. Then we decided to eat out and drive back up to Chilao, but couldn't find any restaurants open on Thanksgiving Eve. Finally drove to Upper Chilao campground. Got there at ~9:00 pm and cooked dinner there. Went to bed at ~10:00 pm.

26 Nov. 25 81354.5 Got up at 6:30am and had breakfast. Got to Short Cut Saddle at 8:00am. Had very good luck there. Out of 50 traps we caught the following animals:

6 Peromyscus californicus	+1 juv. dead
5 Peromyscus truei	+1 juv. dead
2 Peromyscus eremicus	+1 juv. dead

for a total of 16 Peromyscus.
These were in Manzanita on one side of road, mixed chaparral with Manzanita + Yucca on the other side.

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San Gabriel Mts., Los Angeles Co., Calif. + San Bernardino

Nov. 26 Checked the 40 traps at Arroyo Seco Overlook ("Taming a Canyon" sign).

81363.4

3 Peromyscus calif.
1 Peromyscus truei
1 Peromyscus eremicus ?
1 Neotoma fuscipes released

81364.0 Checked traps at Switzer Plantation

7 Peromyscus californicus
1 Peromyscus truei
3 Peromyscus eremicus ?
6 Perognathus californicus
4 Neotoma fuscipes
1 Brown towhee

Put animals in jars and had lunch. Drove to E. end of San Gabriel Mts. Set 90 traps in Lytle Creek Canyon, 14.3 mi N of Fontana Post Office by road. Left there and drove to the San Bernardino Mts. near the San Gorgonio Wilderness. Set 30 traps (20 sm. folding Shermans and 10 large folding Shermans) in a grassy area with Yellow Pines in hopes of catching Perognathus alticola. This is site I, 12.1 mi. E of Mentone Post. Office. Set 60 traps

Pictures

0 Short Cut Saddle
1 " " "
2 Switzer chap
3 Switzer "
4
5 campsite Miel Cr.
6 site III

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San Bernardino Mts., San Bernardino Co., Calif.

Nov. 25, 26 in chaparral 11.6 mi E of Mentone Post Office (site II)
Set 94 traps 6.8 mi E of Mentone P.O. across
the road from Mill Creek Ranger Station (site III),
in a flat chaparral area between the
highway 38 and the creek. This area has
artemesia, Yucca, etc. It was dark by this
time so we drove to Mill Creek Campground
and cooked dinner.

Nov. 26, 27 Got up at 6:30 a.m. Went out at 7:30 a.m. to check traps.

Site I 1 Peromyscus maniculatus? 12.1 mi E of Mentone
1 Peromyscus eremicus?
This was in grass and Yellow Pine but got no Perognathus.

Site II 11.6 mi E of Mentone out of 60 traps

	Peg	John	Don
12 Peromyscus californicus	3	+ 3 + 1 sick	+ 3 + 1 dead + 1 sick
1 Peromyscus boylii?			dead — Don
2 Neotoma fuscipes			Don released
2 Perognathus calif.	Peg		dead

Site III out of 94 traps 6.8 mi E of Mentone

8 Peromyscus maniculatus		
3 Peromyscus sp?		+ 1 dead
12 Neotoma fuscipes		released
9 Dipodomys agilis or stevensi?	4 Peg + 1	4 John
5 Reithrodontomys megalotis	2 Peg	3 John released

Drove to the other area in Lytle Creek Canyon

4 Peromyscus calif. + 1 dead
1 Peromyscus eremicus
4 Dipodomys agilis or stevensi

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San Bernardino National Forest, San Bernardino & Riverside Co's, Calif.

27 Nov. 76 It was very cold and windy both during the night and the morning. Left ~~to~~ Lytle Creek and drove to the Mac Donalds in San Bernardino for lunch. Then drove to Banning and south to the San Jacinto Mts. on hiway 243. Set 100 folding Shermans in chaparral 10.5 mi SE of Banning in Manzanita, chamise, large boulders, and granite gravelly soil. Very cold and windy on this ridge top. Drove up as far as Idyllwild station but this was into Yellow Pine forest above the chaparral, so turned around and drove back down. Set 40 folding Shermans 8.1 mi SE of Banning in Manzanita shrubby chaparral. Decided to stay in a motel because of the cold wind so drove back to Banning and settled into a motel and got cleaned up. Had dinner at the San Gorgonia Inn and went to bed at ~8:30 pm.

28 Nov. 76 Got up at 6:00 am and stopped at Winchell's for donuts. The people there said it got down to 20°F overnight. Drove up to the higher site to check traps. It was still very cold and windy at this site.

10.5 mi SE of Banning:

14	Peromyscus californicus ?	+1 dead
2	Peromyscus maniculatus	+ 1 dead
3	Dipodomys	+1 dead
1	Neotoma fuscipes.	released

ind
§2160

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San Jacinto Mts., Riverside Co., Calif.

28
Nov. 27 The Peromyscus californicus looked somewhat unusual to us at this site - the ears looked round rather than pointed. We will have to look at these more carefully when we get back.

8.1 mi SE of Banning

1 Peromyscus californicus? +1 dead (saved on dry ice)
1 Dipodomys +2 dead (saved on dry ice)
2 Neotoma fuscipes released

The surprising thing was how well the animals survived in spite of the wind and cold. Many of the traps were frozen to the ground.

Left this area at 8:45 am. Went across Cajon Pass and thru the desert to Bakersfield. Stopped there for lunch. Got back to Berkeley at 7:00 pm. Unloaded and turned in the station wagon. Final mileage 82160.

Strawberry Canyon, Alameda Co., Calif.

Nov. 30 Dick Sage got permission from Joe McBride in Forestry to set traps in Strawberry Canyon. Dick wanted some Peromyscus truei to compare proteins from fresh ears with those from a series of skins from Strawberry Canyon. I was interested in whether there were any P. maniculatus or P. californicus there. We set 100 folding Sherman traps, 60 of them in Strawberry between the swimming pools and

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Strawberry Canyon, Alameda Co., Calif

Nov. 30 the Botanical Garden and 40 off of Grizzly Peak Blvd. at the head of Strawberry Canyon near Grizzly Peak.

Dec. 1 Dick Sage brought in all the traps. There were 11 Peromyscus truei and 3 Peromyscus californicus. The P. calif. were from Strawberry Canyon in Blackberry, nettles, under Laurels in a fairly moist area, especially compared to the dryer drier chaparral the other traps were in. We took tissues from all the animals and Dick also took ears.

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Russell Reservation, Contra Costa Co., Calif.

Mar. 4 Left Berkeley at 8:30am. Mileage 36786.

Set 40 non-folding Shermans at Garbage Dump.
41-50 in moist canyon at edge of chaparral.
51-60 in canyon with Baccharis and sage
61-70 in canyon down road in Baccharis
71-80 along edge of chaparral + in canyon
Set 1-20 folding Shermans in Lower edge of Chaparral next to Laurel Canyon.
Set 21-40 in Laurel Canyon.
Set 41-60 in chaparral east of Observatory
Set 61-80 in oak-bay woodland N of Observatory
Set 81-100 in Grassland.
Set 101-120 in Grassland.
Also did the vegetation profiles. Got back to Berkeley in time for Zool. Seminar.

Mar. 5 Got to Russell at 7:00 am.

Checked Garbage Dump:

				toe clip #
trap 54	P. truei	♀	juv. (not saved)	dead
trap 60	P. truei	♂	adult	1
trap 67	P. truei	♂	adult	2
trap 68	P. truei	♀	adult	3
trap 73	P. truei	♀	adult	4

~~Lower Chaparral next to~~ Laurel Canyon

trap 38	P. truei	♂	juv.	5

Chaparral East of Observatory

trap 44	P. truei	♂	adult	10
trap 46	P. truei	♂	adult	11

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Russell Reservation, Contra Costa Co., Calif.

Mar. 5 Chaparral East of Observatory (continued)

trap 50 Refous-sided Towhee released

Grassland

nothing

Oak & Laurel N. of Observatory

trap 69 P. truei ♂ adult 12

trap 70 P. truei ♀ adult 13

Finished checking traps after 10 ? trip at Briones. Fairly warm Saturday afternoon. Full moon Fri. & Sat. nights but overcast Sat-Sun morning, clearing by 10:00 a.m.

Mar. 6 Checked traps at Garbage Dump:

trap 54 recapture #3 P. truei adult ♂ 15 meters from last night

trap 55 P. calif. saved for tissues

trap 59 P. truei ♀ adult 14

trap 60 recapture #1 P. truei adult ♂ same trap as Fri. night

trap 61 P. truei ♀ adult 15

trap 67 recapture #2 P. truei adult ♂ not saved dead

trap 68 P. calif. ♂ saved for tissues

Set 10 extra traps ~~of~~ on a moist N facing hillside to try to get some extra P. californicus.

Weather	max	min	
Fri.	18°C	7°	(Fri night)
Sat	20°C	8°	
Sun	~22°C	~6°	(weather records picked up already)

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Russell Reservation, Contra Costa Co., Calif.

Mar. 6

Lower Chaparral

				toe clip #
trap 8	P. truei	♀	adult	20
trap 13	P. truei	♂	adult	21
trap 19	P. truei	♂	adult	22

Laurel Canyon

trap 39	P. truei		~~saved~~	released ~~bad shape~~

Grassland

nothing

Oak-Bay Woodland N of Observatory

nothing

Mar. 7

Cloudy in the morning but no precipitation so far. Hot to Russell at 8:30 a.m.

Garbage Dump

trap 51	recapture #3	♂	P. truei	released
trap 59	recapture #1		P. truei	released
trap 60	recapture #14		P. truei	released
trap 61	Mus musculus			released
trap 67	recapture #4	♀	P. truei	released

~~extra traps on moist hillside~~

nothing

Lower Chaparral

trap 8	P. truei	♀	adult	released
trap 12	recapture #22		P. truei	20 meters from last night
trap 18	P. truei	♂	adult	released

Laurel Canyon

trap 22	recapture # 20	70 meters from last night

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Russell Reservation, Contra Costa Co., Calif.

Mar. 7 Grassland

nothings

Oak-Bay Woodland

trap 73 \ recapture #13 released

Brought in traps and got back to Berkeley at ~1:00 pm. Final mileage 36936.

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Russell Reservation, Contra Costa Co., Calif.

Mar. 4 — Vegetation Analysis: Garbage Dump I

trap II	0-20 cm	20-100 cm	>100 cm
41		10% snowberry	50% live oak
42		10% snowberry	60% live oak
43		20% snowberry	60% live oak
44		20% dead branches	
45			40% live oak 30% dead branches
46		30% live oak sprouts	30% live oak
47	(herbs 20%)	(20 snowberry)	40 live oak 20 laurel
48	↓	↓	40 live oak
49	herbs grass 10%		40 buckeye
50	herbs 10%		40 buckeye 50 laurel
51	20% dead branches		
52		40% dead branches	20% Baccharis
53	30% dead branches		10% Baccharis
54			Baccharis 30%
55		30% sage	20% dead branches
56		60% sage	10% dead branches
57		80% sage	
58		50% sage	
59	~~50% sage~~	50% sage	
60		30% dead branches	10% Baccharis
rocks			
dead	2,5	4,5	3,0
live	2,0	18,0	27,0

M.F. Smith
1977

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Mar. 4 Vegetation Analysis: Garbage Dump II

trap #	0-20 cm	20-100 cm	>100 cm
61	herbs 40%	dead logs 50%	50 Buckeye
62			20 Baccharis
63			60 sage
64	sage 20%	dead branches 20	
65	~~parsley~~ Hemlock 10%	dead branches 20	Baccharis 10
66		dead branches 50	
67		dead branches 20	40 Baccharis
68		dead branches 50	Baccharis 20
69	hemlock 10		Baccharis 40
70		dead branches 30	
71			Baccharis 20
72		dead branches 50	
73			Baccharis 40
74		dead branches 30	Baccharis 30
75		dead branches 20	Baccharis 30
76		dead branches 20	elderberry 40
77		dead branches 50	elderberry 40
78			Baccharis 20
79		dead branches 50	
80	dead branches 30		
rocks			
dead	1.5	23.0	
live	4.0		23.0

M.F. Smith
1977

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Mar. 4 Vegetation Analysis: Laurel Canyon

trap #	0-20 cm	20-100 cm	>100 cm
21			laurel 80
22		rocks 40	laurel 40
23		rocks 40	laurel 80
24		rocks 20	laurel 20 live oak 50
25		rock 10	laurel 80
26			buckeye 20 live oak 30
27			buckeye 80
28			laurel 70
29			laurel 50
30			live oak 20 laurel 60
31			live oak 70
32			live oak 70
33		dead branches 30	laurel 80
34			laurel 20 buckeye 20
35			buckeye 80
36			buckeye 60
37			Baccharis 20
38			buckeye 30
39		sage 20	Baccharis 20
40		sage 40	
rocks		5.5	
dead		1.5	
live	Buckeyes have leafed out	3.0	57.5

M.F. Smith
1977

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Mar. 4 Vegetation Analysis: Lower Edge of Chaparral 0.3mi. E Office

trap #	0-20 cm	20-100 cm	>100 cm
1			gooseberry 50%
2	rocks 20%	Baccharis 30%	
3		dead branches 20%	Baccharis 20%
4	dead branches 10%	sage 50%	
5		dead branches 40%	
6			Baccharis 40
7		dead branches 20	Baccharis 20
8	rocks 30		Baccharis 20
9	rocks 30	sage 40	
10	rocks 20	sage 30	
11		sage 20	
12		sage 50	
13		sage 20 dead branches 10	
14			Baccharis 30
15			Baccharis 40
16			Baccharis 20
17	herbs 10		Baccharis 10
18			Baccharis 30
19			Baccharis 20
20			Baccharis 30

rocks	5.0		
dead	0.5	4.5	
live	0.5	12.0	16.5

M.F. Smith
1977

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Mar. 4 Vegetation Analysis: Chaparral East of Observatory

trap #	0-20 cm	20-100 cm	>100 cm
41			sage 40 chamise 20
42			chamise 20 Baccharis 20
43		sage 30	~~sage~~
44			sage 10 chamise 10
45		sage 40	
46		sage 40	
47			chamise 20
48			sage 20 chamise 40
49			sage 60
50		sage 30	
51		sage 20	
52			chamise 30
53		rock 30	chamise 30
54		sage 20	chamise 20
55			chamise 20
56		sage 30	chamise 20
57		dead branches 20	sage 20
58		sage 30	
59		sage 40	
66		sage 30	
rocks		1.5	
dead		1.0	
live		15.0	20.0

M.F. Smith
1977

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Mar. 4 Vegetation Analysis: Oaks + Laurels

trap #	0-20 cm	20-100 cm	>100 cm	N. of Obs.
61			Baccharis 30	
62			live oak 40 elderberry 20	
63			live oak 60	
64		dead branches 20	live oak 30	
65	dead limbs 30		live oak 40	
66			live oak 20 laurel 20	
67		oak sprouts 10	live oak 60	
68		poison oak 10	live oak 20	
69		poison oak 10	laurel 20	
70	log 30		laurel 20	
71		poison oak 10	live oak 20	
72		poison oak 10	laurel 30 live oak 30	
73			laurel 60	
74			laurel 70	
75		poison oak 10	live oak 20 laurel 40	
76			laurel 70	
77			live oak 40	
78			live oak 50	
79			live oak 40	
80			live oak 30	
rocks				
dead	3.0	1.0		
live		3.0	44.0	

M.F. Smith
1977

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Mar. 4 Vegetation Analysis: Grassland I

trap #	0-20 cm	20-100 cm	>100 cm
101	green grass 90		
102	dry grass 70 green grass 20		
103	dry grass 70 green grass 60		
104	dry grass 10 green grass 60		
105	dry grass 20 green grass 60		
106	dry grass 40 green grass 40		
107	dry grass 40 green grass 30		
108	dry grass 40 green grass 40		
109	dry grass 10		
110	green grass 20	dry stalks 20	
111	green grass 30 dry grass 20		
112	green grass 20	dry stalks 30	
113	green grass 20 dry grass 20		
114	green grass 30 dry grass 10		
115	~~green thistle~~ 0 dry grass 50		
116	green grass 10 dry grass 30		
117	green grass 10 dry grass 30		
118	green grass 20 dry grass 10		
119	green grass 10 dry grass 30		
120	green grass 30 dry grass 20		
rocks			
dead	24.5	2.5	
live	29.0		

M.F. Smith
1977

JOURNAL

Russell Reservation, Contra Costa Co., Calif.

Mar. 4 Vegetation Analysis: Grassland II

trap #	0-20 cm	20-100 cm	>100 cm
81	green grass 20 dry grass 60		
82	green grass 5 dry grass 70		
83	green thistle 60 dry grass 10		
84	green grass 40 dry grass 20		
85	green grass 40 dry grass 30		
86	green grass 40 dry grass 20		
87	green grass 60 dry grass 20		
88	green grass 60 dry grass 10		
89	green grass 40 dry grass 30		
90	dry grass 50 green grass 60		
91	green grass 40	dry stalks 5	
92		dry stalks 5	
93	green grass 30	dry stalks 10	
94	green grass 20 green grass 40	oak sprout 20	
95	dry grass 20 green grass 40		
96	dry grass 40 green grass 20		
97	dry grass 30 green grass 80		
98	dry grass 10 green grass 50		
99	dry grass 20 green grass 40		
100	dry grass 20		
rocks			
dead	23.0	1.0	
live	37.8	1.0	

M. F. Smith
1977

JOURNAL

Park Lane
home 527-4791
work 843-7900 ext 582

Hopland Field Station, Mendocino Co., Calif.

Mar. 11 Left Berkeley at 8:30am. Mileage 36942. Stopped for a sandwich in Cloverdale. Got to Hopland at ~11:30a.m. Checked in at office and then went out to set traps. Expecting Florence Amamoto to arrive tomorrow noon to work with me for a day. Animals will be saved for Bob Lane at State Dept. of Health.

Set 1-20 in Foster Creek
Set 21-40 on Foster Hillside
Set 41-60 nonfolding on N side of Rock Pile
Set 61-80 nonfolding on S side of Rock Pile.
Set ~~81-10~~ 41-60 in Chaparral N side
Set 61-80 in Chaparral S side
Set 81-100 in Grassland and Oaks.
Set 101-120 in Grassland.

Heavy overcast by 6:00 pm. Had dinner and went to Office to get weather data.
Stars visible at 9:30 pm, but rain started sometime in the night.

Mar. 12 Went out at 7:00am to check traps - Light rain falling, but some patches of blue sky.

Checked Foster Creek

ok Nov 76

trap 4 Peromyscus truei ♀ adult #200 from last time? saved for Bob Lane
trap 7 Neotoma fuscipes released
trap 12 P. truei ♀ adult saved for Bob Lane
trap 16 P. truei ♀ adult saved " " "
trap 17 P. truei ♀ adult #5 on #205 from before saved " " "

M. F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 12 Checked Foster Hillside

trap 30 P. boylii ♀ adult — saved for Bob Lane

trap 29 Neotoma fuscipes — released

2 in same trap:
trap 26 P. boylii ♀ adult — #12 from last time ok Nov '76 — saved for Bob Lane
trap 26 P. boylii ♀ adult — " " " "

Parasitic Pen D-2

trap 85 P. truei ♀ adult — saved for Bob Lane

trap 91 P. truei ♂ adult — "

trap 92 P. maniculatus ♂ adult — "

trap 112 P. maniculatus ♂ adult — "

Rock Pile

trap 41 Neotoma fuscipes — released

trap 43 P. boylii ♂ adult — saved for Bob Lane

trap 45 P. boylii ? ♀ adult — "

trap 48 P. boylii ♂ adult — recapture of #35 from last trip July '76 — "

trap 50 P. boylii ♀ adult — "

trap 51 P. boylii ♀ adult — dead - not saved

trap 55 P. boylii ♂ adult — saved for Bob Lane

trap 60 P. boylii ♀ adult — recapture #42 from July '76

trap 62 P. truei ♂ adult — "

trap 63 P. boylii ♀ adult — dead - not saved

trap 66 P. boylii ♂ juv. molting to adult — saved for Bob Lane

trap 67 P. boylii ♂ adult — recapture #150 from July '76 — "

trap 69 P. boylii ♂ adult — bad shape saved

trap 70 P. boylii ♂ adult — saved for Bob Lane

trap 72 P. truei ♂ adult — "

M.F. Smith
1977

Hopland Field Station, Mendocino Co., Calif.
Rock Pile (continued)

Mar. 12
trap 74 Neotoma fuscipes — released
trap 76 P. boylii ♂ recapture #151 from July 76 last trip — saved for Bob Lane
trap 77 P. ~~boylii~~ manic. ♂ — not saved dead 3-15-77
trap 78 P. ~~boylii~~ truei ♂ — " " " "
trap 79 P. manic. ♀ — " " " "
trap 80 P. boylii ♀ — " " " "

Florence arrived at ~12:00 noon and helped me replace the traps in the Rock Pile. Then we drove up to the Chaparral in Orchard Pasture.

trap 48 P. boylii ♂ adult — dead-not saved
trap 57 P. truei ♂ adult — saved-for Bob Lane
trap 59 P. manic. ♂ adult — saved for Bob Lane
trap 75 P. boylii ♀ adult — dead-not saved

Some hail while we were checking traps there. ~~Checks~~ Recorded vegetation profile in chaparral and then down in Foster Creek + Foster Hillside. Finished before 5:00 pm. Had dinner and graded lot field notes after dinner while Florence wrote letters.

Mar. 13 Cold during the night. Frost on the car. Sun came out but later in the morning the clouds rolled in again.

Weather	max	min
Fri	62° F	38°
Sat.	48°	32° (Orchard Weather Station)
Sun.		

M.F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 13

Rock Pile

trap 43	P. boylii	♂ adult	saved for Bob Lane
trap 49	P. boylii	♂ adult	" " " "
trap 50	Sorex sp?		saved dead
trap 51	P. truei	♂ adult	saved for Bob Lane
trap 55	P. boylii	♀ adult	" " " "
trap 60	P. truei	♂ adult	" " " "
trap 63	P. boylii	♂ adult	" " " "
trap 74	Neotoma fuscipes		released
trap 77	P. manic.	♀ juv.	saved for Bob Lane
trap 78	P. manic	♀ juv.	" " " "
trap 80	P. truei	♂ adult	" " " " dead not saved

Chaparral in Orchard Pasture, 2300'

trap 41	P. manic.	♂ adult	saved for Bob Lane
trap 66	P. boylii	♂ adult	" " " "
trap 80	P. boylii	♂ adult	" " " "

Grassland + Oaks D-2

trap 91	P. truei	♂ adult	toe clip # 1

Grassland

both in one trap

trap 113	Reithrodontomys megalotis		released
trap 113	Reithrodontomys megalotis		"

Foster Creek

trap 12	P. truei	♀ adult	saved for Bob Lane
trap 19	P. truei	♀ adult	" " " "

Foster Hillside

trap 30	P. boylii	♀ adult	saved for Bob Lane

M.F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 13 Finished checking traps at ~11:45 a.m. Had lunch and then Florence left to return to Berkeley. I went down to the office to work on the vegetation and trapping data. More hail during the afternoon.]

Mar. 14 Thick ice on the car again this morning at 7:00 a.m.

Rock Pile

trap 42 P. maniculatus ♀ juv. — not saved dead

trap 60 P. boylii ♂ adult — saved for Bob Lane

trap 74 Neotoma fuscipes — saved for Bob Lane

trap 77 P. maniculatus ♂ juv — " " " "

trap 80 P. maniculatus ♀ adult — " " " "

Foster Creek

trap 8 Neotoma fuscipes — saved for Bob Lane

trap 18 P. truei ♂ adult — " " " "

trap 19 P. truei ♀ adult [#210 from previous trip Nov '76] — " " " "

Foster Hillside

trap 26 P. ~~truei~~ boylii ♂ adult — saved for Bob Lane

trap 28 P. boylii ♂ adult [#101 from ~~previous trip~~ July '76] — " " " "

trap 29 P. boylii ♂ adult #102 from July '76 — " " " "

Chaparral in Orchard Pasture

nothing

Parasite Pen D-2

Grass + Oaks

trap 81 P. maniculatus ♀ adult — not saved dead

Grassland

trap 111 Reithrodontomys megalotis — released

M.F. Smith
1477

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 14 Paid $10.00 at Office for my 3 nights plus Florence one night. Packed up and left Bunkhouse at 12:15 pm. Final mileage 37210. Took the animals for Bob Lane to the State Health Dept. Lab on the corner of Acton + University in Berkeley on the evening of Mar. 14. On Mar. 15 I went there to get kidneys from the P. boylii from the Rock Pile ~~which~~ while Bob Lane and Dale ? (from the Virus Lab) were getting blood samples (heart puncture) and ectoparasites. Dale used dry ice in a beaker to anaesthetize the mice. Bob Lane expects to publish the results of his research on diseases carried by rodents at Hopland sometime in the next year or two.

M.F. Smith
1976

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 11 Vegetation Analysis – Rock Pile I (North)

Trap #	0-20 cm	20-100 cm	>100 cm
41		rocks 40	laurel 50
42	rocks 40		live oak 30 Toyon 20
43	rocks 30		madrone 20
44			manganita 50
45	dead log 10		manganita 30
46			madrone 70
47	herbs 20 dead log 10		live oak 40
48	rocks 60		live oak 10
49		rocks 50	live oak 40 dead branches 20
50		rocks 50	
51	rocks 30		madrone 50
52	rocks 30		madrone 30
53		rocks 30	laurel 10
54	rocks 40		live oak 70
55			rocks 40 madrone 20
56		rocks 30	live oak 40 madrone 10
57	rocks 10		Buckeye 20 Toyon 10
58	rocks 20		live oak 20
59		dead log 10 rocks 30	live oak 10
60		dead log 10 rocks 40	madrone 50
rocks	13.0%	$\frac{270}{20} = 13.5$	$\frac{40}{20}$ 2.0%
dead veg.	1%	$\frac{20}{20} = 1.0\%$	1.0%
live veg.	1%		35.0%

M.F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 11 Vegetation Analysis - Rock Pile II (South)

trap #	0-20 cm	20-100 cm	>100 cm
61	rocks 50	dead log 10	live oak 40
62	rocks 20	dead branches 10	live oak 30 madrone 30
63	rocks 30		Toyon 10 madrone 20
64	rocks 20		decid oak 20
65		dead branches 10 rocks 20	live oak 10
66		rocks 30	buckeye 20
67	rocks 30		buckeye 30 decid oak 10
68	rocks 40		
69	rocks 40		laurel 30 buckeye 10
70	herbs 10	rocks 30	buckeye 10 laurel 50
71		rock 70	laurel 20
72	rock 70		laurel 60
73		rock 60	live oak 20 laurel 20
74	rocks 20		live oak 60
75		dead branches 60 rock 40	live oak 70
76			laurel 60 rocks 50
77			buckeye 10
78		rock 30	laurel 10
79	rock 30		laurel 30
80	rock 30%	rock 10%	laurel 70%

rocks	19.0%	14.5%	2.5
dead veg.		4.5%	
live veg.	0.5%		37.5%

M. F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 12 Vegetation Analysis - Foster Creek

trap #	0-20 cm	20-100 cm	>100 cm
1		rock 30 dead branches 10	Valley Oak 40
2		rocks 30	Valley Oak 30
3	grass 10		stump 20
4	dead branches 10		live oak 30 ~~30~~
5		rocks 30	live oak 20
6		rocks 40	laurel 70
7			laurel 50 rocks 50
8			laurel 70
9	dead logs 20		laurel 60
10	logs 20		laurel 70
11			laurel 60 log 20
12		dead branches 20	laurel 50
13	log 20 rocks 20		laurel 20 live oak 30
14	log 10 rocks 10		laurel 30 buckeye 10
15		rocks 20	laurel 70
16		dead branches 10	laurel 60
17		dead branches 40	laurel 50
18	rock 20		laurel 50
19	rock 30		laurel 60
20	rock 40		Valley oak 20 laurel 30
rocks	6.0%	7.5%	2.5%
dead veg.	4.0%	4.0%	2.0%
live veg.	0.5%		50.5

M.F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 12 Vegetation Analysis - Foster Hillside

Trap #	0-20 cm.	20-100 cm.	>100 cm
21	log 20		Madrone 20
22			Manzanita 10 Live oak 10 / Black oak 20
23			~~Manzanita 10~~
24	logs 10		~~Live oak 10~~ ~~Black oak 20~~
25	logs 10		Black oak 20
26	dead log 10		Madrone 30
27	rocks 10 dead logs 10		Black oak 20
28	dead logs 10		Madrone 40
29		dead logs 40	Live oak 40
30			Madrone 10 dead logs 50
31	Green herbs 5		Live oak 30 Madrone 30
32	rocks 40		Toyon 40
33	rocks 40		Live oak 60 Madrone 20
34			Live oak 50
35		dead branches 30	Madrone 50
36		dead branches 10	Live oak 70
37			Live oak 70 Live oak 10
38	logs 10		Elderberry 10
39	logs 30		Live oak 10 dead stump 10
40			Laurel 60

rocks	4.5		
dead veg.	5.5%	4.0%	3.0%
live veg.	0.25		36.5%

M. F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 12 Vegetation Analysis - Chaparral I (N)

trap #	0-20 cm	20-100 cm	>100 cm
41		chamise 60%	
42		chamise 70%	
43		chamise 40	
44		chamise 40	
45		chamise 30	
46		chamise 50	
47			ceanothus 10 chamise 40
48			chamise 40
49			chamise 10 ceanothus 40
50		chamise 50	
51			chamise 20 ceanothus 30
52		chamise 50	
53		chamise 40	
54		chamise 50	
55		chamise 40	
56			live oak 40 elderberry 20
57			chamise 50
58		chamise 40	
59			chamise 60
60		chamise 50	

rock
dead veg.
live veg

$\frac{610}{25} = 30.5\%$ 18.0%

M.F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co, Calif.

Mar. 12 Vegetation Analysis - Chaparral II (South)

trap #	0-20 cm	20-100 cm	>100 cm
61		chamise 40	
62		chamise 40	
63		chamise 20	scrub oak 30
64		chamise 50	
65		chamise 50	
66			chamise 60
67			chamise 50
68		chamise 40	
69		chamise 40	
70		chamise 10	scrub oak 30
71			chamise 50
72		chamise 30	
73			chamise 50
74			chamise 40
75			chamise 60
76	logs 10	chamise 10	live oak 30 live oak 50
77	logs 10		dead logs 30
78	logs 10		live oak 70 laurel 20
79		rock 40	live oak 70
80		rocks 20	live oak 80

rocks		3.0%	
dead veg.	30/20 = 1.5%		1.5%
live veg.		16.5%	34.5%

M.F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 11 Vegetation Analysis - Grassland + Oaks

trap #	0-20 cm	20-100 cm	>100 cm
81	~~grass~~ thistle 50	dead branches 20	valley oak 10
82	green grass 70	dead branches 20	valley oak 20
83		dead branches 10	valley oak 10
84		dead branches 10	valley oak 10
85		dead branches 10	valley oak 10
86	dead branches 10		valley oak 10
87	dead branches 10		valley oak 10
88	green grass 20		
89	green grass 80		valley oak 20
90	green grass 30	dead log 20	
91	green grass 80	dead logs 30	
92	green grass 70	dead log 30	live oak 50
93	green herbs 30	dead logs 20	live oaks 40
94	green herbs 40	dead branches 20	live oak 30
95	green herbs 20	dead branches 30	live oak 30
96	green herbs 20	dead branches 10	
97	dry grass 10 green grass 10	rock 10	
98	dry grass 10 green grass 10		
99		dead branches 40	valley oak 10
100			valley oak 30

rocks $\frac{11}{20}$ 0.5

dead veg. $\frac{40}{20}$ = 2.0% $\frac{270}{20}$ 13.5

live veg. 26.5 % $\frac{290}{20}$ = 14.5

M.F. Smith
1977

JOURNAL

Hopland Field Station, Mendocino Co., Calif.

Mar. 11 Vegetation Analysis - Grassland

trap #	0-20 cm	20-100 cm	>100 cm
101	dry grass 10 green grass 20		
102	dry grass 10 green grass 10	rocks 20	
103	dry grass 30 green grass 10		
104	dry grass 10 green grass 50		
105	dry grass 30 green grass 40		
106	dry grass 10 green grass 80		
107	green grass 90		
108	green grass 80		
109	dry grass 20 green grass 30	rock 10	
110	dry grass 10 green grass 60		
111	green grass 60	rock 10	
112	dry grass 10 green grass 30	rock 10	
113	dry grass 30 green grass 10		
114	dry grass 30 green grass 20		
115	rock 10 green grass 60		
116	dry grass 10 green grass 60		
117	dry grass 10 green grass 30	rock 10	
118	dry grass 10 green grass 10	rock 10	
119	green grass 30	rock 20	
120	dry grass 10 green grass 20		
rock	0.5%	4.5	
dead veg.	12.0%		
live veg.	40.0%		

M.F, Smith
1977

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar, 18 Left Berkeley at 9:15am to drive to Hastings. Mileage 37210. Florence Amamoto is planning to drive down tomorrow. Got to Hastings at ~12:30pm. Delivered tires + ether.

Set 1-20 along dry creek in Madrone Canyon
21-40 in oaks + on moist hillside
81-100 in grassland lower near creek
101-120 in grassland upper
41-60 in chaparral on Watertank Hill by Red House
61-80 on Watertank behind Davis' house

Set 41-60 nonfolding Shermans at Finch Creek west end down hill + along creek in rocks
61-80 nonfolding Shermans at Finch Creek east end along creek.

Set 121-140 folding Shermans around lab buildings, unsafe barn, + bunkhouse.

Finished at ~5:30pm and worked in lab until ~7:30pm when + made dinner. Steve Dobson is staying in the Bunkhouse; he is working on Ground Squirrels. Graduated from UC Berkeley in 1975. Working on a Masters under Sally Holbrook at UC Santa Barbara.

M.F. Smith
1977

JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. 19 Checked traps around Buildings

trap 128	Neotoma fuscipes			released toe clip
trap 135	P. manic	♀	juv.	1
trap 135	P. manic	♂	juv.	2

Madrone Canyon

trap 3	Neotoma fuscipes			released
trap 10	Neotoma fuscipes			released
trap 11	Neotoma fuscipes			released
trap 19	P. boylii	♂	adult	3
trap 20	P. boylii ?	♀	adult	4
trap 25	P. boylii	♀	adult	dead not saved
trap 26	P. calif.	♂	adult	5
trap 27	P. calif.	♀	adult	10
trap 30	P. boylii	♀	adult [#110 from previous trip]	110
moist hillside ↓ trap 32	P. calif.	♀	adult	11
trap 33	P. calif.	♀	juv. molting to adult	12
trap 34	Neotoma fuscipes			released
trap 37	P. calif.	♂	juv.	13
trap 38	P. calif.	♂	juv.	14
trap 40	P. calif	♂	juv.?	15

Chaparral by Red House

nothing

Chaparral behind Davis' house

trap 61	Perognathus californicus			died 3/20/77 ~~not saved saved for JLP~~
trap 61	P. boylii	♀	juv	bad shape - released
trap 63	Perognathus californicus			saved for JLP

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Hastings Reservation, Monterey Co., Calif.

Mar. 19	Finch Creek	west end	hill + creek	toe clip #
	trap 45	P. boylii	♀ adult	20
	trap 49	P. boylii	♀ adult	21
	trap 50	P. boylii	♂ adult	22
	trap 51	P. mantc	♂ adult	23
	trap 52	P. eatt f	♂ juv ?	24
	trap 53	P. boylii	♀ juv	25
	trap 54	~~Sorex~~ sp. ?		dead - saved
East end	trap 62	P. boylii	♀ adult	30
	Trap 64	P. boylii	♂ adult [#201 from previous trip, now 231]	231
	trap 67	P. boylii	♂ juv.	32
	trap 69	P. boylii	♀ adult	dead - not saved
	trap 70	P. boylii	♂ adult [#210 from previous trip]	210
	trap 72	P. boylii	♀ adult	33
	trap 73	P. boylii	♂ adult	34
	trap 74	P. boylii	♂ adult	35
	trap 76	P. boylii	♂ adult	dead - not saved
	trap 78	P. boylii	♀ juv.	40
	trap 79	P. boylii	♂ juv.	41
	trap 80	P. boylii	♀ adult	42

Grassland

nothing

Weather

Fri.	max	58° F	min Fri night	31° F
Sat		59°		31°
Sun				

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Mar. 19 Florence arrived and we ate lunch, then went out to finish vegetation profiles. Finished at ~ 3:30 pm. Then I looked at the Calhoun line data cards. Recorded captures starting with Nov. 1974. Recorded embryo counts for the 3 species available (no litters of P. boylii). Had dinner at Red House with Walt, Steve Dobson, Florence + me.

Mar. 20 Went out to check traps at 7:15 am. Ice on the cars.

around Buildings

trap 128	Neotoma fuscipes		released
trap 131	Reithrodontomys megalotis		saved for 107 class

Chaparral near Red House

trap 41	Eutamias sp.?		released toe clip #
trap 46	P. truei ♂	juv. molting to adult	43
trap 57	P. truei ♂	adult	saved for 107 class
trap 59	P. truei ♀	adult	44

Chaparral behind Davis' house

trap 67	P. truei ♂	adult	45

Madrone Canyon

trap 2	P. truei ♀	adult	50
trap 3	P. boylii ♂	adult [#220 from previous trip]	220
trap 17	recapture #3	P. boylii ♂ ad 15 m. from last night	
trap 23	P. boylii ♀	adult	released bad shape
2 in same trap: trap 24	P. boylii ♂	juv.	released bad shape
2 in same trap: trap 24	P. boylii ♀	adult [#214 from previous trip]	214

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Mar. 19 Calhoun Data

1974 July July 10, 11, 12

P. truei ♂ oak-woodland
P. truei ♂ chaparral
P. truei ♂ oak-woodland
P. truei ♂ chap.
P. truei ♀ chap.
P. truei ♂ chap
P. truei ♂ chap
P. truei ♂ chap

P. manic ♂ meadow
♂
♂
♂
♂
♂
♀
♂
♂
♀

Dec. 13, 14, 15

P. truei ♀ chap
P. truei ♀ chap
P. truei ♀ chap
P. truei ♂ chap
P. truei ♀ chap
P. truei ♂ chap
P. truei ♀ chap
P. truei ♂ chap
P. truei ♂ chap

♂ chap
♀ chap
♂ chap
♂ chap
♀ chap
♂ chap
♀ chap

Pimanic ♂ meadow
♀
♀
♀
♀
♂
♀
♂

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Mar. 19

Calhoun Data

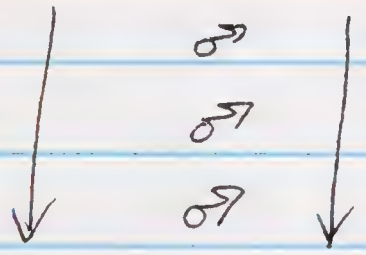
1974 (continued) July

P. boylii ? ♂ chap

P. boylii ? ♂ chap

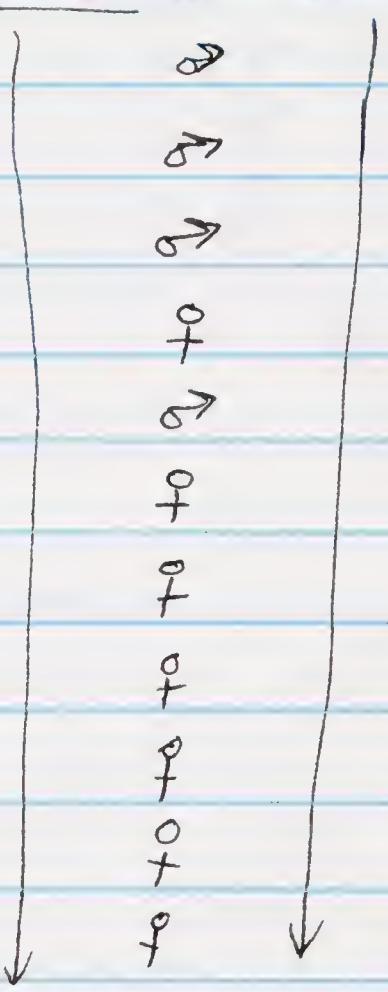
P. boylii ? ♀ chap

P. calif. ♀ chap

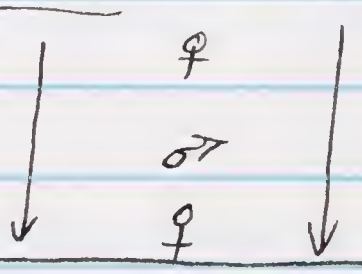


Dec.

P. manic ♂ meadow



P. calif. ♀ chap



Summary

1974 July

P. trvei	oak-wood	2	
P. trvei	chaparral	6	(3.4)
P. boylii	chaparral	3	(1.7)
P. calif.	chaparral	4	(2.3)
P. manic	meadow	10	

Chap. line has 105 traps

December

P. tr.	chaparral	16	(9.1)
P. calif.	chaparral	4	(2.3)
P. manic	meadow	20	

chap. line has 105 traps

$$\frac{16}{105} = \frac{x}{60}$$

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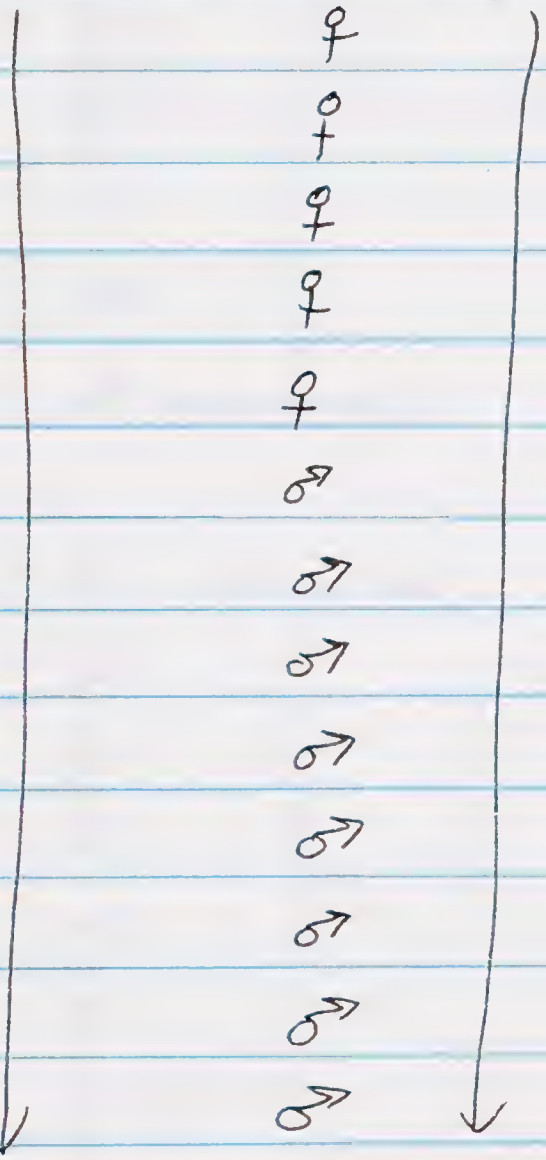
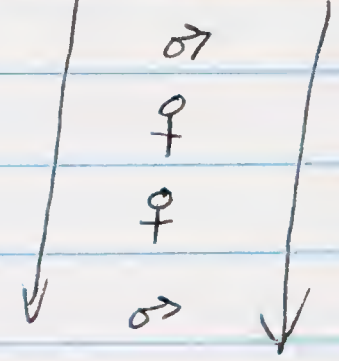
Mar. 19 Calhoun Data 1975

~~July~~ May 30 - June 1

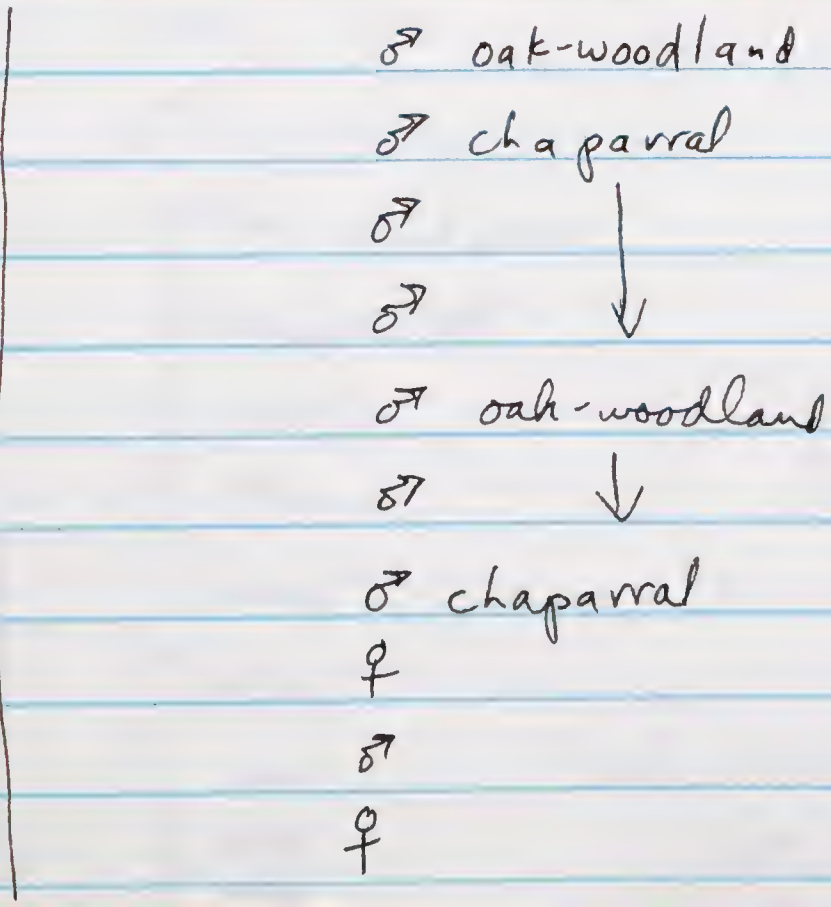
Peromyscus truei ♀ chaparral



P. truei ♂ chaparral



P. truei



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Mar. 19 Calhoun Data 1975

May 30-June 1

P. manic. ♂ meadow

♀

♀

♂

♂

♂ chaparral

P. calif. ♀ chaparral assume Peromyscus not Perognathus

♀

♀

♀

♂

♀

♀

♀

♂

♂

♂

♂ oak woodland

♂ chaparral

♀ chap

♀ chap

♀ chap

♂ chap

♀ chap

♀ chap

♂ chap

Summary

1975 (May-June)

P. truei	chaparral	26	(14.9)
P. truei	meadow	1	
P. truei	oak-woodland	2	
P. manic	meadow	5	
	chaparral	1	(0.6)
P. calif.	chaparral	18	(10.3)
	oak-woodland	1	

ask O.P. Pearson or J.L. Patton about Fall 1975

22-24, 1975

ci

Woodland 1

ural 23

nic.

ow 7

if. chap. 11

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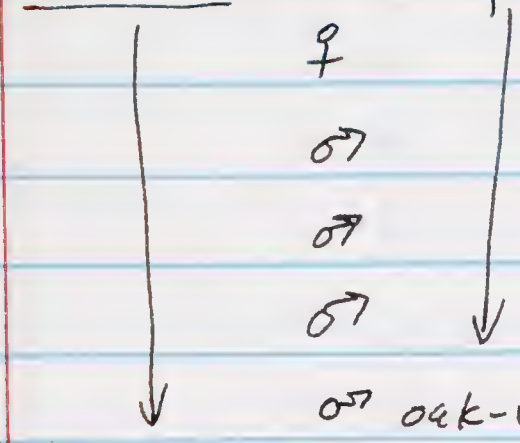
Mar. 19 Calhoun Data 1976

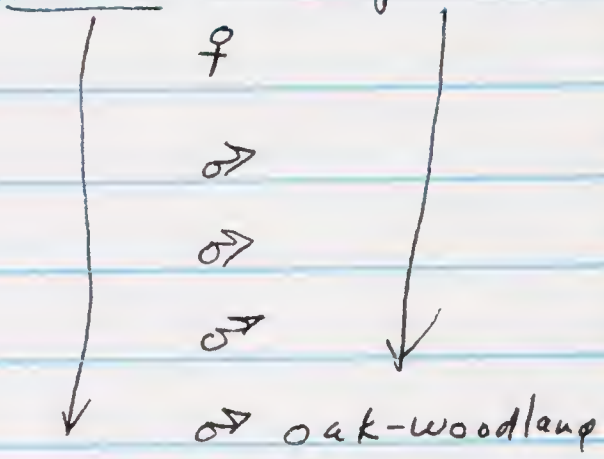
June 15-17

P. truei ♀ chaparral

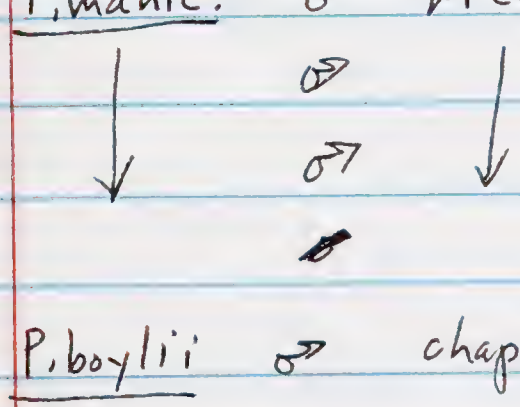


Nov. 13-15

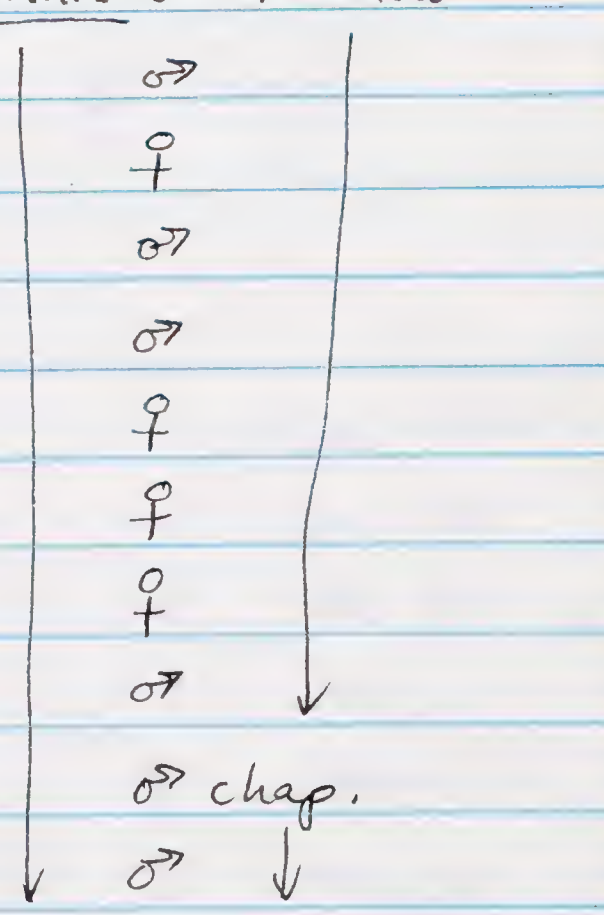
P. truei ♂ chaparral



P. manic. ♂ meadow



P. manic ♂ meadow



P. boylii ♂ chaparral

P. calif. ♀ chap

Summary 1976 June

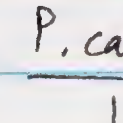
P. truei chaparral 5 (2.9)
oak-woodland 1

P. manic. meadow 3

P. boylii chaparral 1 (0.6)

P. calif. chaparral 1 (0.6)

P. calif. ♀ Chaparral



Summary 1976 December

P. truei chaparral 5 (2.9) oaks 1

P. manic chaparral 2 (1.1) meadow 9

P. calif chaparral 2 (1.1)

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Mar. 19 Calhoun Line Data - Litter Size

P. truei	embryos		
	2	Nov. '67	
	2	"	
	4	Nov. 69	
	3	Nov. 70	
	3	June '71	
	2	June '72	
	3	Nov 73	
	4	Nov 73	
	3	Dec 74	$\frac{31}{11} = 2.82$
	3	Dec 74	
	2	Dec 74	

P. maniculatus	embryos	Nov. '67	
	4		
	4		
	3		
	4		
	4		
	3		
	4		
	3		
	4	June '68	
	5	Nov '68	
	4	June '69	
	8	Nov '69	
	5	Nov '69	
	3	Dec 74	
	4	Dec 74	
	5	Dec 74	
	5	Nov 76	
	6	Nov 76	
			$\frac{78}{18} = 4.33$
	4	Nov. 75	
	5		$\frac{87}{20} = 4.35$

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Mar. 19 Calhoun Line Data - Litter Size

P. boylii embryos	P. calif. embryos	
none caught with embryos on Calhoun cards	2	Nov 1970
	3	Dec 74
	2	Dec 74
	7/3 = 2.3	

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(Mar. 19) Calhoun Data added 11/9/77 from cards that weren't available when data was summarized

Nov. 22, 23, 24 1975

Oak Woodland

P. truei 1 ♀ scars 1R-1L Nov 22

Grassland

P. maniculatus	3	Nov 22	♀ emb 2R-2L ♀ emb 4R-1L ♂
	2	23	♂ scrotal ♂ nonscrotal
	~~3~~ 2	24	♀ no emb, ♀ lact. scars 2R-3L fresh

Chaparral

P. calif.	22 Nov	~~5~~	♀ 4 no emb ♂ 5 nonscrotal
	23 Nov	~~3~~	1 ♂ nonscrotal 1 ♀ no emb
P. truei	22 Nov		7 ♂ nonscrotal 10 ♀ no emb
	23 Nov		2 ♂ nonscrotal 4 ♀ no emb

Reithro	22 Nov	3
	23 Nov	4
Dipodomys venustus	22 Nov	2
	23 Nov	2
Perognathus calif	22 Nov.	1

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Mar. 20 **Madrone Canyon**

trap 25 recapture #10 P. calif. 12m from previous night
trap 28 recapture #110 12 m. from last night — toe clip #
trap 31 P. calif. ♀ juv. — 51
trap 32 P. calif. ♀ adult — saved for 107 class
trap 34 recapture #11 15 m. from last night — not saved dead
trap 36 Neotoma fuscipes — released
trap 37 P. calif. ♀ adult — not saved dead
trap 38 recapture #13 10 m. from last night

2 in one trap
trap 39 P. calif. ♂ juv. — 52
trap 39 P. calif. ♂ adult — 53

Grassland

nothing

Finch Creek - J. Bell Ranch

trap 45 recapture #20 same trap as last night — dead
trap 49 recapture #21 same trap as last night
trap 50 recapture #22 same trap as last night — saved for 107 class
trap 51 recapture #25 12 m. from last night
trap 52 P. calif. ♂ juv. — dead
trap 53 recapture #24 8 m. from last night
trap 54 P. calif ♀ adult — 54
trap 55 P. calif. ♀ adult — 55
trap 59 P. boylii ♂ juv. — dead
trap 60 P. boylii ♂ juv. — 100
trap 61 P. manic. ♂ juv. — 101
trap 62 recapture #231 15m. from last night
trap 64 P. boylii ♀ juv. — 102

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Mar. 20 Finch Creek - J. Bell Ranch

trap 69 recapture #210 6m from last night — dead
trap 70 P. calif ♀ adult — 103
trap 71 P. calif. ♀ juv. — 104
trap 73 P. boylii ♀ juv. — dead
trap 74 recapture #35 same trap as last night
trap 76 P. boylii ♂ juv. — dead
trap 77 recapture #34 25m. from last night
trap 78 recapture #42 10 m. from last night

Florence left at ~2:00pm and I worked on data in the afternoon and evening.

Mar. 21 around Buildings

trap 128 Neotoma fuscipes — saved for 107 class

Madrone Canyon

trap 2 recapture #220 (P. boylii) 6 m from previous night — released
trap 6 P. boylii ♂ juv. — released
trap 12 Neotoma fuscipes — "
trap 15 P. calif ♀ adult — "
trap 17 P. boylii ♂ adult — "
trap 21 P. boylii ♂ juv. — "
trap 22 recapture #214 (P. boylii) 6 m from last night — "
trap 23 recapture #13 (P. calif) 70 m from last night — "
trap 25 recapture #10 (P. calif) same trap — dead
trap 26 recapture #5 (P. calif) same trap as Fri night — released
trap 31 recapture #12 (P. calif) 12 m from Friday night — "
trap 38 recapture #14 (P. calif) same trap as Fri. night — "

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Mar. 21 Madrone Canyon (continued)

trap 40 recapture #12 50m from Fri. night dead

Grassland

nothing

Chaparral by Red House

trap 59 recapture #44 same trap dead

Chaparral behind Davis' house

nothing

J. Bell Ranch - Finch Creek

trap 50 P. boylii ♂ juv released

trap 51 recapture #25 same trap as last night dead

trap 53 recapture #23 8m from Fri. night released

trap 54 recapture #54 same trap dead

trap 56 recapture #24 15m from last night released

trap 57 P. boylii ♂ adult released

trap 60 recapture #100 same trap dead

trap 61 recapture #30 7m from Fri. night dead

trap 62 P. boylii ♂ adult released

trap 64 recapture #231 8m from last night dead

trap 66 P. boylii ♂ adult dead

trap 70 recapture #104 6m from last night released

trap 71 Perognathus californicus saved for TLP

trap 72 P. boylii ♂ juv released

trap 74 recapture #231 45m from last night released

trap 76 Sorex sp.? dead too long, not saved

trap 77 recapture #34 same trap as last night dead

trap 78 P. boylii ♂ adult released

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Mar. 21 Finch Creek - J. Bell Ranch

trap 79 recapture #41 same trap as Fri. night dead

trap 80 recapture #42 10m from last night released

Packed up and left at ~1:30 pm. Unloaded at LSB and left live animals for 107 outside JLP's office. Final mileage 37520.

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Mar. Vegetation Analysis : Buildings

trap #	0-20 cm	20-100 cm	>100 cm
121	green herbs 10		building 30 live oak 40
122		Manzanita 30	roof 20
123	green herbs 10		roof 50
124	green grass 30	shrub 30	roof 50
125	green grass 70		roof 50
126	green grass 20		
127	rock 30 green grass 70		roof 50
128	green grass 10		roof 50
129			roof 50
130	green grass 10	logs 10	live oak 70
131	herbs 30	snowberry 10	roof 20 Valley Oak 10 snowberry 30
132			
133		gooseberry 30	Valley Oak 10 Valley Oak 10
134		gooseberry 10	Baccharis 20 live oak 10
135	herbs 30		roof 50
136	green grass 80		locust 10
137	green grass 20	dead stems 10	roof 30
138	herbs 30	dead stems 20	
139	herbs 60		buckeye 10
140		herbs 40	roof 50
rocks	1,5		
dead		2,0	25,0
live	24,0	7,5	11,0

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Mar. Vegetation Analysis: J. Bell Ranch - Finch Creek I

Trap #	0-20 cm	20-100 cm	>100 cm
41			Madrone 70
42	rock 10 herbs 60	snowberry 10	Madrone 40 Laurel 30
43	rock 10 log 10	snowberry 20	Live Oak 20
44	rocks 40	log 10 snowberry 10	Live Oak 80 Laurel 10
45	rocks 30		Live Oak 70 snowberry 20
46	rocks 30 herbs 5		Live Oak 60 Laurel 10
47	rocks 50	snowberry 20	Live Oak 80
48	herbs 70	snowberry 20	Live Oak 10
49	herbs 10	log 40 snowberry 10	Sycamore 10
50	herbs 10	roots 50	
51	grass 10	snowberry 10	Laurel 10
52	grass 10	snowberry 20	
53		snowberry 10 rocks 50	Laurel 20
54	rocks 30	snowberry 10	Laurel 20
55	dead branches 30 rock 10		rock 40
56	↓		live oak 10
57	log 40 herbs 60	snowberry 10	Live Oak 10
58	log 30 herbs 10		Live Oak 30
59	rocks 30	gooseberry 20	Laurel 10 Sycamore 10
60	rocks 10	dead branches 20	Live Oak 20
rocks	12.5	2.5	3.0
dead	5.5	6.0	
live	12.3	8.5	32.5

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Mar. Vegetation Analysis; J. Bell Ranch - Finch Creek II

trap #	0-20 cm	20-100 cm	>100 cm
61	herbs 10	dead branches 20	Live Oak 70
62	herbs 40	dead branches 30	Laurel 70 Live oak 10
63			dead branches 40
64	log 10 rocks 60	snowberry 10	Live Oak 10
65	rocks 20	snowberry 20	Live Oak 60
66	rocks 40	snowberry 40	alder 10
67	herbs 30 rocks 40	current 20	alder 10
68	herbs 70 rock 10	snowberry 40	Sycamore 10
69		roots 50	Sycamore 20
70	log 20 rock 30	snowberry 20	
71	herbs 70 rocks 20	snowberry 20	
72	rocks 70	snowberry 20	
73	rocks 20	snowberry 50	Buckeye 10 Sycamore 10
74	rocks 20	snowberry 10	rocks 30
75	dead branches 20 herbs 70		
76	herbs 60	gooseberry 20	alder 10
77	herbs 10	snowberry 40	dead branches 10
78	log 20 herbs 20	snowberry 10	Sycamore 10
79	herbs 70	dead branches 30	Live Oak 70
80	herbs 80	dead branches 20	Live Oak 30

rocks	16.5		1.5
dead	3.5	7.5	2.5
live	26.5	18.5	20.5

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Mar. Vegetation Analysis; Grassland I lower

trap #	0-20 cm	20-100 cm	>100 cm
81	green grass	20	
	dry grass	20	
82	green grass	60	
	dry	10	
83	green	80	
	dry	10	
84	green	80	
	dry	10	
85	green	80	
	dry	10	
86	green	90	
	dry	10	
87	green	70	
	dry	10	
88	green	70	
	dry	5	
89	green	70	
	dry	5	
90	green	80	
	dry	10	
91	green	80	
	dry	15	
92	green	70	
	dry	10	
93	green	50	
	dry	30	
94	green	50	
	dry	10	
95	green	60	
	dry	10	
96	green	50	
	dry	20	
97	green	30	
	dry	20	
98	green	50	
	dry	20	
99	green	60	
	dry	20	
100	green	50	
	dry	20	

rocks

dead 13.25

live 62.5

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Mar. Vegetation Analysis: Grassland II Upper

trap #		0-20 cm	20-100 cm	>100 cm
101	green		70	
	dry		10	
102	green		70	
	dry		10	
103	green		40	
	dry		10	
104	green		40	
	dry		10	
105	green		40	
	dry		10	
106	green		40	
	dry		10	
107	green		30	
	dry		10	
108	green		10	
	dry		20	
109	green		60	
	dry		10	
110	green		40	
	dry		30	
111	green		40	
	dry		30	
112	green		50	
	dry		10	
113	green		70	
	dry		10	
114	green		70	
	dry		5	
115	green		70	
	dry		10	
116	green		70	
	dry		10	
117	green		70	
	dry		10	
118	green		60	
	dry		10	
119	green		60	
	dry		10	
120	green		50	
	dry		20	

rocks	
dead	12.8
live	52.5

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Mar. Vegetation Analysis; Madrone Canyon

trap #	0-20 cm	20-100 cm	>100 cm
1	green grass 30	currant 10	plum tree 10
2		blackberry 10	live oak 30
3		dead branches 30	buckeye 10
4		dead branches 10	live oak 40
5			live oak 60
6		shrub 10	sycamore 20
7		snowberry 10	live oak 10
8		dead branches 20	live oak 50
9			live oak 60
10		dead branches 10 rock 30	live oak 20
11	grass 5	dead branches 20	live oak 30
12		dead branches 20	live oak 60
13	herbs 10	dead branches 20	live oak 30
14	dead branches 30 grass 50		live oak 10
15	grass 10	dead branches 10	live oak 30 madrone 10
16	grass 30	dead branches 20	live oak 30
17	log 10 grass 40		live oak 30
18	grass 10	dead branches 40	live oak 40
19	dead branches 20 grass 10		live oak 10
20	herbs 10		live oak 40

rocks		1.5	
dead	3.0	10.0	
live	10.3	2.0	31.5

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JOURNAL

Hastings Reservation, Monterey Co., Calif.

Mar. Vegetation Analysis; Madrone Canyon

trap #	0–20 cm	20–100 cm	>100 cm
21	grass 5		live oak 40
22			live oak 30 dead branches 40
23		dead branches 30	buckeye 50
24	grass 10	snowberry 10	live oak 20 dead branches 20
25		dead branches 50	live oak 40
26		dead branches 20 buckeye 10	buckeye 20
27		dead branches 20	live oak 50
28		dead branches 40	live oak 40
29			live oak 50 dead branches 40
30	grass 20	dead log 10	buckeye 10
31	rocks 10 grass 20		live oak 40 buckeye 10
32			dead branches 20 buckeye 60
33	rocks 10 herbs 20		buckeye 60
34		toyon 20	buckeye 30
35	dead logs 40 herbs 20		buckeye 40
36	dead branches 20 herbs 40		live oak 60 buckeye 10
37	logs 10 herbs 10	shrubs 10	live oak 40 buckeye 20
38	herbs 50		buckeye 10 toyon 40
39	rocks 30	toyon 10	live oak 50 buckeye 10
40	dead branches 20 herbs 20		
rocks	2.5		
dead	4.5	8.5	6.0
live	10.8	3.0	41.5

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Hastings Reservation, Monterey Co., Calif.

Mar. Vegetation Analysis: Chaparral on Watertank Hill (behind Davis' Red House)

trap #	0-20 cm	20-100 cm	>100 cm
41			ceanothus 60
42			ceanothus 40
43			" 50
44			chemise 40
45	dead branches 20		" 20
46			" 40
47			" 40
48			" 40
49			ceanothus 40
50			chemise 40
51			ceanothus 50
52			chemise 40
53		chemise 30	+ ~~30~~ ceanothus 10
54			chemise 30
55			chemise 30
56			" 40
57		chemise 30	ceanothus 10
58			chemise 40
59			ceanothus 10 " 40
60			chemise 30
rocks			
dead	1.0		
live		3.0	37.0

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Hastings Reservation, Monterey Co., Calif. II

Mar. Vegetation Analysis: Chaparral on Watertank Hill (behind Davis')

tray #	0-20 cm	20-100 cm	7/100 cm
61			roof 40 shrub 50
62	rocks 40		shrub 30 baccharis 50
63			baccharis 50
64			ceanothus 40
65		chemise 20	
66			ceanothus 30
67		dead branches 40	
68			live oak 30 dead branches 50
69		ceanothus 30	
70			ceanothus 40
71			live oak 60
72		dead branches 30	chemise 20
73			ceanothus 20 chemise 30
74			chemise 40
75			chemise 50
76			chemise 40
77		dead branches 20 chemise 10	
78		dead branches 20	chemise 20
79			ceanothus 60
80			chemise 20

rocks	2.0		
dead		5.5	4.5
live		3.0	34.0

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Hastings Reservation, Monterey Co., Calif.

Mar. 20 Weather Records (continued from 1976)

1977	J	F	M
Ext Max	80		
Mean Max	60.5		
Ext Min	26		
Mean Min	35.2		
Precip			

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Foothills of Sierra Nevada, ~~Coast Range~~, + Panamint Valley

Mar. 26 Left Berkeley at 7:30am after picking up John Cadle and Don Straney. Mileage 36443. The purpose of this trip is to collect Peromyscus californicus to fill in the geographic areas that I haven't yet sampled electrophoretically. Don is interested in collecting the Peromyscus near Trona + Darwin Falls that was previously thought to be intermediate between P. crinitus and P. eremicus, but which he now suspects may be P. truei. Drove east towards Yosemite on 120 to 49 at Chinese Camp, south on 49 looking at habitat, saw some possible areas just N of the county line in Tuolomne Co, and just N of Bear Valley. Drove all the way to El Portal looking for possible locality that had been reported as "near El Portal", but didn't see any accessible chaparral along the Merced River canyon, although some steep hillsides were covered with it higher up. Decided to go all the way into Yosemite and stake out a campsite. Had lunch at ~1:30pm, then drove back out to set traps.

Set 120 folding Shermans 13.6 mi NW of Mariposa (counting from intersection of Hwy 140 and 49 in Mariposa, or 1.5 mi NW of historical marker in Bear Valley. These traps were in chamise, ceanothus, + Manzanita.

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JOURNAL

Sierra Foothills +
Yosemite Natl. Park, Mariposa Co., Calif.

Mar. 26 Set 60 folding large Shermans near an old mine 2.9 mi NW of Bear Valley (by rd.). Mostly in chamise (Adenostema fasciculatum).

Set 60 folding large Shermans 8.4 mi NW of Bear Valley (by rd.) at a bench mark of 1716'. Chamise, ceanothus, manzanita, rocks. Finished there at ~ 6:30 p.m. John Cadle had caught several skinks (Eumeces 1, Sceloporus , 1 Pituophis and heard Hyla regilla. Drove back to campsite in Yosemite Valley and cooked spaghetti for dinner. Finished dinner at ~10:30 p.m. (spaghetti water took a long time to boil).

Mar. 27 Got up at 6:30 a.m. Left Yosemite Valley at 8:00 a.m.

1.5 mi. NW of Bear Valley on Hwy 49

3 ♂ Peromyscus truei out of 120 traps

2 ♂ Peromyscus boylii

2.9 mi. NW of Bear Valley on Hwy 49 60 traps

2 Peromyscus manic. (both in same trap)

1 P. truei

8.4 mi NW of Bear Valley on Hwy 49 60 traps

1 P manuculatus

Finished there at ~12 noon. Didn't catch any Peromyscus californicus. We're not sure at this point whether its because this is the very northern edge of the range, or they are very scarce in the foothills of the Sierra, or whether we were trapping

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Bear Valley, Mariposa Co., Calif.

Mar. 27 the wrong kind of habitat. It was certainly the kind of diverse chaparral where P. calif. would be found in the Coast Ranges of California.
We drove back on Hwy 49 to Mariposa, then west on 140 to Hwy 99 and headed south. Stopped for lunch in Madera at ~ 2:00 p.m. From Fresno we took Hwy 180 east towards Kings Canyon Natl. Park. Went through some grazed areas with rocky canyons and scattered oaks where I might have liked to try setting traps, but all the land was fenced. After Squaw Valley we did border on Natl. Forest land where we had been planning to trap. This was just north of Miramonte, which was a locality I had recorded, but the record was from 1932. There was very little accessible chaparral along Hwy 180 bordering the natl. forest. The road climbed rapidly to ~ 7,000' at the entrance to King's Canyon. Above about 4,000' it was mostly pines. We turned around at the park entrance and went back down a steep windy road (Hwy 245) with snow in patches along the side of the road. Again we rapidly ran out of national forest land and the lower, more chaparral covered areas were fenced and heavily posted.
We looked all the way along 245 south to Elderwood, then headed east to Visalia to get on to

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JOURNAL

Sequoia Natl. Forest, Kern Co., Calif.

Mar. 27 Hwy 99. It was dark by this time so we decided ~~th~~ to drive south to Bakersfield and camp somewhere in the Natl. Forest east of Bakersfield so we would be close to the area we wanted to trap the next night. Had dinner in Bakersfield at ~9:30pm. Got to ~~Live Oak~~ Upper Richbar Cpgd. (east of Bakersfield on Hwy 178) at ~11:00 pm.

Mar. 28 The campsite is right next to the Kern River at ~1500' elevation. Quite a lot of traffic on Hwy 178 early in the morning. Apparently people commuting from Lake Isabella to Bakersfield. Left the campsite at ~9:30am; drove along the 4 lane freeway to the turnoff to Bodfish & Miracle Hot Springs. Checked out the Hobo campground, then drove on north on 178 past Isabella Lake, through Kernville, and then north of Kernville towards Johnsondale through more of Sequoia Natl. Forest. Looked at habitat along the road as far as Limestone Cpgd., then turned south again and set traps on the way back.

Fairview Campground, 17 mi. N of Kernville on Mtn. 99, 3690' elev., Sequoia Natl. Forest, Tulare Co., Calif.
Set 40 large folding Shermans in scrub oak & manzanita.

Chamise Flat, 15.3 mi N of Kernville, 3500' (3500'), Tulare Co.
Set 120 large Shermans in chamise, scrub oak, sagebrush, Ceanothus, pines. This was the most diverse chaparral we saw.

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Sequoia Nat'l Forest, Tulare + Kern Co's., Calif.

Mar. 28 Hospital Flat, 6.9 mi. N of Kernville, Tulare Co.

Set 40 large Shermans here, 20 in closed campground with boulders + shrubs; 20 on hillside with sage, grass, pines.

0.8 mi. E of Miracle Hot Springs; ~2400' elev., Kern Co. Calif.

Set 20 large and ~ 27 small Shermans in canyon and on hillside with large boulders, sagebrush, live oaks, and Buckeyes.

1.4 mi. W of Miracle Hot Springs; ~2400', Kern Co, Calif

Set 40 large Shermans in a canyon with Buckeye, Live Oaks, + Poison Oak.

3.4 mi. W of Miracle Hot Springs, ~2400', Kern Co., Calif.

Set 30 small folding Shermans in a canyon with rocks, oaks, + pines.

John Cadle turned rocks and logs in most of these areas, and got a Ring-necked Snake

Most of the areas seem a bit too dry for amphibians.

It was windy at Hobo Cpgd. so we drove back down to Upper Richbar Campground for the night. Bot to bed earlier for a change - 8:30 pm.

Mar. 29 Bot up at 6:00 am. Checked first line at 8 am.

0.8 mi E Miracle Hot Springs — pictures 3+4

~~3 Peromyscus californicus~~ in rocky canyon wt live oaks + Buckeye

5 ♂ P. truei

1.4 mi w of Miracle Hot Springs

7 Peromyscus ~~truei~~ boylii

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Sequoia Natl. Forest, Tulare & Kern Cos. Calif.

Mar. 29 3.4 mi. W Miracle Hot Springs on old Hwy 178 Kern Co

1 P. boylii dead not saved ear 20mm

~~4 P. tryei~~? 4 P. boylii live saved for tissues

Fairview Campground, 17 mi N Kernville Tulare Co.

2 Neotoma fuscipes released

Chamise Flat 15.3 mi N Kernville, Tulare Co.

4 Dipodomys 5 toed saved 1 live for 107

3 Peromyscus maniculatus 1 dead, 1 live, 1 escaped

12 Peromyscus trued 9 live, 3 dead (not saved)

Hospital Flat, 6.9 mi N Kernville

2 Peromyscus 1 P. trueii ♀ 6 mammae 1 P. boylii ♂

Had lunch in Kernville and drove east on Hwy 178 over Walker Pass to the Panamint Valley. Stopped in Trona for groceries. Drove in to Darwin Falls on a fairly good gravel road, took the right fork where the water pipe goes away from the main gravel road and stopped just over the hill where the road is roped off.
Walked up to Darwin Falls carrying 20 large and 5 small folding Shermans. Set in willows at the pool, and back down along the stream. & caught one Bufo boreas floating downstream. After dinner we hiked back up along the stream looking for more toads. There are both Bufo boreas and Bufo punctatus in this area, plus hybrids between them. We are particularly looking for hybrids for Julie Feder. The hybrids are supposedly big "punctatus" without white stripes, do have red spots, and a more

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JOURNAL

Panamint Valley, Inyo Co., Calif.

Mar. 29 pointed snout than boreas. We finally found some more toads in a pool below the half drum of water. The toads were floating under the green algae in the pond. I grabbed some and John waded in for the others (3 toads from this pond). On our way back down to the camp we heard noises that we later decided were made by wild burros. At dusk we had also set another 20 large Hermans downstream from camp.

Mar. 30 Got up at 7 am and checked traps:

1 Peromyscus maniculatus in rocks on hillside above pond (dead - not saved)

7 Peromyscus crinitus (6 live, 1 escaped)
in willows and above along rock face and in talus slopes
small mouse, small ears, long tail, not as bare looking a tail as I might have expected

From the 20 traps downstream from camp along dry wash edges away from stream;

1 Peromyscus crinitus under tamarisk bush died

2 Dipodomys merriami 4 toed saved + live for 10% class

Drove over to Surprise Canyon to set traps. This is the area where Don had trapped before and gotten the Peromyscus whose specific identification was unclear.

Directions to get to Surprise Canyon:

Go north from Trona on Trona Hwy (also called Trona - Wildrose Rd). Turn east on gravel road to Ballarat (4.1 miles to store in Ballarat). Mostly

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Panamint Valley, Inyo Co., Calif.

Mar. 30 delapitated old buildings in Ballarat. Follow the signs to Panamint City, which means turn left at store in Ballarat, drive 2.2 miles North, then turn east at a white rock that points to Panamint City. Drive 4.6 miles up fairly steep, rocky gravel road to Chris Wick Camp, ~2000' elevation. This is a grove of Cottonwood trees and cattails in a small pond area. We went up above following the stream. Set 40+20=60 large Sherman along stream under vegetation, 20 large Shermans around pond area, and 50 small Shermans on hill above stream in horsetails. Had lunch and then drove back to Darwin Falls Canyon. John went out to look for herps and set 30 sm. traps above the pools in the canyon. Don and I processed 22 mice. ~~To~~ Took tissues and blood, Realized that the test tubes didn't fit in the centrifuge, so the blood sat overnight in test tubes and the plasma had separated fairly well by morning. These samples were put in the liquid N_2 tank. It was cold and windy and raining and it got dark while we were stuffing mice, so some of the specimens leave something to be desired. We made 11 skins and the rest skeletons only. After dinner John went back up the canyon and found two more toads.

Mar. 31 Got up at 6:45 a.m. Had breakfast, finished the blood samples, and packed the car while John went

16 2 lead

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Panamint Valley, Inyo Co., Calif.

Mar. 31 to pick up the traps. Caught 1 P. crinitus which escaped.

Directions to get to Darwin Falls:

North from Trona on Trona Hwy. or Trona-Wildrose Rd. Follow sign to Death Valley via Hwy 190. When get to 190 turn west rather than east. After Panamint Springs "resort" go 1.1 miles, then turn left onto gravel road at the place where the water pipe turns away from the road.
Go 2.8 miles to a right turn off the main gravel road. Another 0.1 miles to place where cable marks end of vehicle traffic.

Checked traps at Surprise Canyon

Chris Wich Camp, Surprise Canyon, 3 mi N, 2 mi E Ballarat, ~2000', Inyo Co., Calif.

16 Peromyscus eremicus 2 dead, 14 saved 1 dead April 4 1977 1 live to Zoo/07

This is the site where previously (July 1974) Don had caught many P. maniculatus, many P. crinitus, and also the unknown Peromyscus. P. eremicus at that time was only found out on the valley floor in creosote bush (Larea).

We drove out to Ridgecrest for lunch and back to the Miracle Hot Springs area to try once more since we didn't think we would make it over to Los Padres Natl Forest in time to set traps before dark.

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Sierra National Forest, Kern Co., Calif.

Mar. 31 Started at the bottom of old Hwy 178, also called Kern Canyon Rd. or Borel Rd. Stopped just above the Democrat fire station, 10.3 mi. W Miracle Hot Springs - 60 large Shermans.

9.8 mi W Miracle Hot Springs 60 large Shermans
7.6 mi W Miracle Hot Springs 20 " "
5.5 mi W Miracle Hot Springs 60 "
5.2 mi W Miracle Hot Springs 40 lg 24 sm Shermans

Finished setting traps at ~6:00 pm, and camped again at Upper Richbar campground.

April 1 Got up at 6:00 am. It was cold and damp during the night. Almost full moon.

10.3 mi. W Miracle Hot Springs, 2 ', Kern Co, Calif.

11 Peromyscus boylii 7 dead, saved 4
7 P. truei 3 dead saved 4
2 P. maniculatus
1 Peromyscus californicus
1 Neotoma fuscipes released

This was the first Peromyscus californicus we caught on this trip. It was very gray, fat tail, weighed ~42 gm. It was caught on a hillside between a Hawthorne and a Ceanothus bush with a log between them. Along the creek in a canyon were mostly P. boylii, many of them dead, probably because the night was moist + cold. This site is about 12.3 miles below Bodfish which was a locality given in Grinnell & Orr, 1934.

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Sierra Natl. Forest, Kern Co., Calif.

April 1 9.8 mi W Miracle Hot Springs (by rd.) Kern Co., Calif.

9 Peromyscus boylii released
4 P. californicus saved
1 P. maniculatus saved

Two of the P. californicus were caught within 10 feet of the creek, which had water in it. The other two were caught one on each hillside above the creek. Again, add ~2 miles to get the distance below Bodfish, about 11.8 mi.

7.6 mi W. Miracle Hot Springs (by rd.) Kern Co., Calif

1 P. truei released
1 P. boylii released

this was open grassy area with sage, rocks, some live oaks & ceanothus.

~~5.5~~ 5.2 mi W Miracle Hot Springs (by rd.) Kern Co., Calif.

3 P. man/c. 1 saved, 2 dead (not saved)
5 P. boylii 2 dead (not saved), 3 released
1 P. truei released
1 Neotoma fuscipes released

When Don threw one of the dead mice off to the side of the road a small owl, Pygmy Owl, flew down and grabbed it and flew with it to a live oak and sat there eating it. It was only about 15 meter from where we were standing. The owl was small, ~8 or 9 inches, brown with white streaks on the breast, some spotting on the sides, dark on the wings, a dark line on each side at the back of the

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Sierra Natl. Forest, ~~to~~ Kern Co., Calif.

April 1 neck that looked like eyes ~~where~~ when it turned its head, yellow eyes, and a yellow beak. The owl was perched in the tree and an Anna Hummingbird was flying around it, possibly "mobbing" it*. We threw the rest of the mice over, and it watched them but didn't fly out again.

5.5 mi W Miracle

6 P. boylii released

1 Perognathus californicus saved for JLP this was along a creek with water in it, the Perognathus was on a hillside about 30' above the creek.

Drove back to camp and processed and stuffed mice all afternoon (18 mice either skins + skeletons or skeletons only.

Went out at 4:45 pm to set more traps in the areas where we had caught Peromyscus californicus last night.

Set 60 large 10.3 miles W of Miracle Hot Springs on hillside in 3 parallel lines thru grass with Ceanothus + Oaks.

Set 10 lg. Sherman 9.8 mi W Miracle Hot Springs higher up on hillsides than before and along creek.

Drove to Kernville for dinner at Ewings to celebrate the capture of the 5 P. californicus.

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Sierra Natl. Forest, Kern Co. Calif.

April 2 Checked Traps at 7:45am.

10.3 mi. W Miracle Hot Springs Kern Co., Calif.

7 P. truei released

~~P. maniculatus~~

2 P. boylii released

1 Neotoma fuscipes released

9.8 mi W Miracle Hot Springs Kern Co., Calif.

2 Peromyscus californicus saved

4 Peromyscus truei (2 dead) released

7 P. boylii released

It was cloudy overnight, not as cold as the previous night. Overcast in the morning.

The right rear tire was very low, the left rear was somewhat low, and we decided to head straight home rather than driving over to Ojai and into Los Padres Natl. Forest on this trip. Got the tires pumped up in Bakersfield after driving gently down from below Miracle Hot Springs. Stopped in Buttonwillow for lunch at MacDonalds as usual. Got back to Berkeley in the late afternoon. Final mileage 38400.

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Foothills of the Sierra Nevada, Panamint Valley

April 2 Trapping Summary

March 26 NW of Bear Valley, Mariposa Co., Calif.

4 Peromyscus truei — 240 traps
2 Peromyscus boylii
3 Peromyscus maniculatus

March 28 North of Kernville, Tulare Co., Calif.

~~12~~ 14 Peromyscus truei — 200 traps
3 Peromyscus maniculatus
4 Dipodomys
2 Neotoma fuscipes

Mar. 28, Mar. 31, April 1 vic. Miracle Hot Springs

5 +7 +1 +1 +7 (+4) — 25 Peromyscus truei — 120
6 7 +5 +11 +9 +2 — 53 Peromyscus boylii — 270
1 +4 +2 — 7 Peromyscus californicus — 120
2 +1 +3 — 6 Peromyscus maniculatus — 510 traps
1 +1 +1 — 3 Neotoma fuscipes
1 — 1 Perognathus californicus

Mar 29, Mar. 30 Darwin Falls — 80

1 Peromyscus maniculatus — 30
9 Peromyscus crinitus — 110 traps
2 Dipodomys

Mar. 30 Surprise Canyon

16 Peromyscus eremicus — 130 traps

1190 trap nights 143 Peromyscus

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Sagehen Creek, Sierra Co., Calif.

June 3 Left Berkeley at 6:15 pm on Ornithology class field trip to Sagehen and Nevada. Starting mileage 89849.7 (90021.6) Arrived at Sagehen at about 10:30 pm and waited for all the cars, then drove on one mile to a forest service campground. Clear and fairly warm night.

June 4 Got up at ~6 am and ate breakfast. Hiked across the creek in meadow areas and hillside with white fir and red fir. Saw Yellow Warblers, Mountain Chickadees, nest of Flicker, and Red Crossbills. Went back and packed up and drove to station and hiked around there. Marty Raphael showed us a nest of a Black-backed Three toed Woodpecker. The male was incubating and the female was in the area. These are fairly rare birds. Worked more on distinguishing between Dusky and Hammond Flycatchers by song. Also saw White-headed Woodpeckers. Ate lunch and left at about 12:30 pm. Stopped along the road after Fernly to look at a Swainson Hawk. Stopped along the road after Hazen on ALT Hwy 95 to see marsh birds: Yellow-headed Blackbirds, Coot with young. On the other side of the freeway in more open water saw Avocets, some nesting, Black-necked Stelts, Wilson's Phalaropes, Ruddy Ducks and young, Redheads and young. In another pond saw Blue-winged Teal, which are

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Alum Creek Campground, 6400', Mineral Co., Nevada

June 4 rare for Nevada. Stopped at Walker Lake to swim. The water was clearer than two years ago and quite nice for swimming. Ate dinner at El Capitan in Hawthorne, then drove to Alum Creek Campground. Sang around the campfire until ~11 p.m.

June 5 Got up at ~6 a.m. Ate breakfast and hiked up to overlook the canyon. Yellow Pines on altered andesite; piñon, not much juniper, a few Limber Pines. Carson Range that we saw yesterday on the drive over is the last outpost of the Sierra. It has most of the trees and some Sierran birds. The Wassuck Range where we are now has some Sierran forms and some interior forms. The three new records for the range two years ago were Pygmy Nuthatch, Goshawk, and Broad-tailed Hummingbird. Hiked up the canyon to the area of denser Yellow Pines. Along the way saw a Canyon Wren under an overhang near a little water in the creek. This is typical of the areas where they are found. Saw Pygmy Nuthatches, at least three, in the Yellow Pines. Set up two long mist nets near the creek with shrubs. Sat down to give seminars and in the course of the morning caught a Red-breasted Sapsucker and a Virginia Warbler. Came back down for lunch,

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Alum Creek Campground, 6400', Mineral Co., Nevada

June 5 After lunch hiked up the canyon that goes to the west of the campsite and gave more seminars. On the way back some students found two feathers, and then we spotted a large nest about 30 feet up in a Yellow Pine. Decided it was a Goshawk nest. Several students climbed the cliff above it and reported two eggs, one of them with a crack in it. Got back to camp, ~~ate~~ cooked dinner. Went out for owls as it got dark. Calling for Flammulated Owls, falsetto "poop" call; changes in pitch as they get closer, and adds two syllable lower note. One larger owl, Horned or Long-eared, flew over. Did call in several Flammulated Owls but none came in very close. Did track one down and climbed a steep slope to the tree it was in. Finally saw it briefly when it flew out of the tree. Heard Poorwills on the way back to camp. Had also seen Common Nighthawks earlier as it got dark. Look a bit like bats because they were fluttering, but then straightened out to swoop more. Got to bed after 1:00 am.

June 6 Got up at ~7am and had breakfast. Finished the seminars and drove down to the desert. This area has Sage Sparrows, Brewer Sparrows, Bell Sparrows, Horned Larks. This is the lower sagebrush, above it is a zone of Piñon, then a higher

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June 6 Alum Creek Campground, 6400', Toiyabe Natl. Forest, Mineral Co. Nevada sagebrush zone. We didn't see any Black-throated Sparrows. Ate lunch there and then the rest of the students left to return to Berkeley. Stopped in Hawthorne for groceries and at the Naval Ammunition depot for the key to the Mt. Grant area. The turnoff is a gravel road 10.9 mi. N of Hawthorne.

Cottonwood Creek, 7900', Wassuk Range, Mineral Co. Nevada

Parked the camper and slept for an hour, then set traps. Set 81-100 and 1-20 in sagebrush, Crysothamnus and part way into Piñon-juniper. Set 61-80 along edge of road in bunch grass, currant, and Crysothamnus. Jill Trainer set 21-40 along creek in willow thickets. Set 161-180 along creek in willows and aspens. Set 41-60 on hillside in Piñon-juniper and rock slides.

June 7 Went out at 6:45am to check traps.

From the 40 in sagebrush low shrubs caught (81-100, 1-20)

5 Peromyscus maniculatus

1 Peromyscus

2 Perognathus parvus?

From bunch grass, low shrubs along road (61-80)

1 Peromyscus trap 80 in gully

Jill's traps along creek in aspens, shrubs

1 Microtus

1 Peromyscus

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Cottonwood Creek, 7900', Wassuk Range, Mineral Co., Nevada

June 7 In ~~40~~ 20 traps on hillside at edge of Piñons 41-60

2 Peromyscus maniculatus

2 Perognathus

Along creek in willows

~~3~~ Microtus longicaudus

3 Peromyscus maniculatus

117721